

SEQUENCE LISTING

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CONFIRMATION COPY

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567

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SeqID 16

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SeqID 18

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SeqID 23

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SeqID 27

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SeqID 28

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SeqID 29

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SeqID 34

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SeqID 35

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SeqID 36

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SeqID 37

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SeqID 38

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SeqID 39

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SeqID 41

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SeqID 42

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SeqID 43

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SeqID 44

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SeqID 46

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SeqID 49

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SeqID 51

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SeqID 52

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SeqID 53

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SeqID 54

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SeqID 55

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SeqID 57

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SeqID 60

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SeqID 61

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SeqID 62

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SeqID 63

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SeqID 64

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SeqID 65

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SeqID 66

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SeqID 67

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SeqID 68

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SeqID 69

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SeqID 70

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SeqID 71

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SeqID 72

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SeqID 73

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SeqID 74

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SeqID 77

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SeqID 79

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SeqID 80

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SeqID 83

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SeqID 84

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SeqID 85

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SeqID 87

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SeqID 88

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SeqID 89

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SeqID 90

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SeqID 91

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SeqID 92

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SeqID 93

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SeqID 94

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SeqID 95

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SeqID 97

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gtacatgaaa	ataaaatcct	aatagtactc	attttgtatg	tgactaatat	tccgtctcgc	240
tccagaaggt	acgaagtaaa	tagagtt				267
SeqID 122						
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SeqID 123						
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SeqID 124						
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SeqID 125						
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gccttgaaa						249
SeqID 126						
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SeqID 127						
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aagaccttcc	agtcaagaaa	gaccaagaga	tatggggcaa	gccccgaacc	aagatataga	120
gaatcaagga	agccaagatt	gtcaciaa				147

SeqID 128

cagccattgg	gacactcgaa	agccgaagaa	catgagacta	tctgttcgca	taccttcgat	60
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SeqID 129

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tcaaacgaca	cccgttttct	ggagtctcat	ggtaactggc	ggactctgtt	atacagttgg	120
agctggattt	tatgccaaga	aaaaacctta	tttccacatg	atttggcatc	tctttatcct	180
agctgcgtcc	gcacttcaat	acatcgctat	tgtttattac	atgtaaaaaa	gttgagaaat	240
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SeqID 130

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ctccataaca	atagcgaaat	tctcgtatat	agtgactatg	gacatgtgga	cctactccta	180
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SeqID 131

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SeqID 132

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SeqID 133

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accaaggcat	cactaggaat	ctgctctcct	gcagacaaac	gaatgacatc	tcctagcact	180
aattcttcag	gattaagagc	aacttcc				207

SeqID 134

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SeqID 135

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ttcttgcgaa	gcttcccact	tctttatagc	aaaggataaa	atgaggaagg	tgacgggata	240
ggtaatgatg	gccgccttat	ttccaaggat	ataatcaata	gcaccggaca	aaatgggtatt	300
aacaatacca	aagtaatttc	cccatttgc				330

SeqID 136

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aatgtagtca	ctagtttcaa	ccgctactgt	accaaccaag	acaggttgac	ccttttggtg	300
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gtc						363

SeqID 137

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gataaagtca	aggcttcctc	t				81

SeqID 138

ttaagtacca	tgtccagcat	aaagtcaatc	ttgtgctctt	taccgacaca	caccattttc	60
tcaaaatcag	ccatatcacc	aaaaagagga	tccactgcca	ta		102

SeqID 139

agctgctcat	actcatctac	caactccaag	gcattgctcaa	tcgtcgggtt	atcaaaacca	60
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acaatattca	tctgtgtcac	acccatctca	gcagccaagg	caattttcttc	tgcctcacga	120
cctgcaaat	cttctacatt	caagtgtgta	tgtgtatcaa	aaatcatctc	ttctaacctc	180
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cctctcttca	atagagagct	attctgctat	cttttctatc	cgatattgcc	catctcctat	300
tccacagtta	gagacagaag	agattggcta	cat			333

SeqID 140

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ttgatttcat	cctgcttgtc	cttggtgctt	ttttcaatgg	cattttttagc	tgattctttt	300
tcagtagcta	attgcttaga	agcttgtgat				330

SeqID 141

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tccactaacc	ataccaagag	tgacaggccg	ataaagaaa			159

SeqID 142

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agaccaacat	atttgtagca	gttt				144

SeqID 143

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ctctccgtcc	ccaaaagtcc	tatcatctct	ttcccagcga	agatggacaa	aaatcctaaa	180
aggaaactta	atagtaaggt	aatcttcaac	gcctcagtc	ca		222

SeqID 144

actcctccat	ataccaaaat	tcctgcaaaa	acagctataa	taccatttat	ttcagctcaa	60
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SeqID 145

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SeqID 146

MDKKLLLLIDGSSVAFRAFFALYQQLDRFKNVAGLHTNAIYGFQMLSHLLERVEPSHILVAFDAGKTTFRTEMYADYKGGRA
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YGQTYLVDDETFFYGKGVKKAIPEREKFLHLACKLAVLVETEPILLEKLSENGQLELLYDMEQPLAFVLAKMEIAGIMVKKET
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KNYMDEVVREARDKGYVETLFRRRRELDPINSRNFNIRGFAERTAINSPIQSSAADILKIAMIQLDKALVAGGYQTKMLLQVH
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SeqID 147

MGMAAFKNPNNQYKAITIAQTLGDDASSEELAGRYGSAVQCTEVTASNLSVTKTKATVVEKPLKDFRSTSDQSGWVESNGKW
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SeqID 148

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KPTVEITNLTKVENKKSITVSYNLIDTTSAYVSAKTQVFHGDKLVEVDIENPAKEQVISGLDYTPYTVKTHLTYNLGENNE
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VDQLVEEGTDGYKDDYTFVAKSKAEQPGVYTSFKQLVTAMQSNLSGVYTLASDMTADSVSLGDKQTSYLTGAFTGSLIGSDG
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VGSTWQNGRVNNVSVNDVGDGYVITGDQYAAADVKNASTSVNDRKADRFPATKLSKDQIDAKVADYGITVTLDDTGQDLKRN
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EVKANIAEHLRKVLAMDKSINTTGDGVVEYVSEKIKNNKEAFMLGLTYMNRWYDINYGKMNTKDLSTYKDFNGNNNETSTLDT
IVALGNSGLDNLASNTVGLYANKLASVKGEDSVDFVEAYRKLFLPNKTNNEWFKENTKAYIVEMKSDIAEVREKQESPTAD
RKYSLGVDYDRISAPSWGHKSMLPLLLTLPEESVYIISNMSTLAFGSYERYRDSVDGVILSGDALRTYVRNRVDAIAKRHRDHY
DIWYNLLDSASKEKLFERSVIVYDGFNVKDEGTGRTYWARLTDKNIGSIKEFFGPGVKWYBYNSSAGAYANGSLTHFVLDRLD
YGTSVYTHMNVHNSDSAIYFEGNGRREGGLGAELYALGLLQSVDSVNSHILALNTLYKAEKDDLNRRLTYNPFERFDSDEALQS
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DDSREYKRGYTTISMFSVYAAALSNSKGA PGDIMFRKIAYELLAEEKGYHKGFYPVSNQYGAFAFASGSKTFSSWHGRDVAL
VTDDL VFKVFNGEYSSWADF KKAMFKQRIDKQDNLKPITIQYELGNPNSTKEVTITTAQMQQLINEAAAKDITNIDRATSH
TPASVWHLKQKIYNAYLRTTDDFRNSIYK

SeqID 149

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VNHVPIYELFAGDGMLTRLLLKASDKAPWSDNGDAKNPALSPLGENVKTGQYFYQVALDGNVAGKEKQALIDQFRANGTQTY
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MLTRLLLKASDKAPWSDNGDAKNPALSPLGENVKTGQYFYQVALDGNVAGKEKQALIDQFRANGTQTYSATVNVYGNKDGK
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WSDNGDAKNPALSPLGENVKTGQYFYQVALDGNVAGKEKQALIDQFRANGTQTYSATVNVYGNKDGKPDLDNIVATKKVTIK
INVKETSDTANGSLSPSNSGSGVTPMNHATGTTDSMPADTMTSSTNTMAGENMAASANKMSDTMMSSEDKAMPLNTGETQTS
MASIGFLGLALAGLLGGLGLKNKKEEN

SeqID 150

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QERVADAYVAGRYGSWTAAKNFWLNNGWY

SeqID 151

MNKKMILTSLASVAILGAGFVTSQPTFVRAEESPOVVEKSSLEKKYEEAKAKADTAKKDYETAKKKAEDAQKKYEDDQKRTE
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ETKKKAEAEAKAEKVAKRKYDYATLKVALAKKEVEAKELEIEKLQYEISTLEQEVATAQHQVDNLKLLLAGADPDDGTEVIEA
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MATGWAKVNGSWYYLNANGSMATGWVKDGDWTWYYLEASGAMKASQWFKVSDKWYVNGLGALAVNTTVDGYKVNANGEWV

SeqID 152

MKKIVLVSLAFLFVLVCGGQKKTGPATKTEKDTLQSLPVIENAEKNTVVTKTLVLPKSDDGSSQQTQITITYKDKTFLSLAIQ
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ENLLKNEPSKYISDRLANGATEQ

SeqID 153

MFEVEEWLHSLRIGLNFRLSGLGRMQQAVDLLGNPEQSYPIIHVTGTNGKGSTIAFMRELFMGHGKKVATFTSPHIVSINDRICI
NGQPIADADFIRLTDQVKEMEKTLTQTPAQLSFFELLTLVAFLYFREQEVLDLVLEVIGGLDNTNVVTGEFAVITSIGLDH
QETLGDSLEAIAEQKAGIFKAGKKAIAKLPPPEARLACQKKAESLAVNLYQAGQDFMLNNGDFSSLLNLSQLNIGLEGVYQQ
ENAAALALQTFLLFMRERKEAVDEQAVRKALEQTHWAGRLERIRPQIYLDGAHNLPALTRLAEFIKEKEQEGYRPOILFGLSKR
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N

SeqID 154

VGIRVYKPTTNGRRNMTSLDFAEITTTSTPEKSLVALKSKAGRNNNGRITVRHQGGHKKRFYRLVDFKRNKDNVEAVVKTIEY
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SEGKYVLVRLQSGEVRMILGTCTRATVGVVNGEQHGLVNLGKAGRSRWKGIRPTVRGSVMNPNDHPHGGGEGKAPVGRKAPSTP
WGKPALGLKTRNKKAKSDKLIVRRRNEK

SeqID 155

MAKKSVMAREAKRQKIVDRYAEKRAALKAAGDYEGLSKLPRNASPTRLHNRCRVTRGRPHSVYRKFGLSRIAIFRELAHKGQIPG
VTKASW

SeqID 156

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SeqID 157

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VFEEERISPSQLWHALETDYAGEEGKVIQEMLIHDAPKYGNDDDYADKLVTAAVDIYVDEIAKYPNTRYGRGPFGIRYSGTS
SISANVGQGRGTLPDGRNAGTPLAEGCSPSHNMDQHGPSTVLKSVSKLPTDEIVGGVLLNQKVNPTLAKBEDKLLIALL
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SeqID 158

MSQAQYAGTGRRKNAVARVRLVPGTGKITVNKKDVEEYIPHADLRLVINQPPAVTSTVGSYDVFVNIGGGYAGQSGAIRHGI
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SeqID 159

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AVYDMTQSCIEKGYEHFLLITADTSTRISRIERASGFVDALTDANMRHASLTIEDKHTNLEQIKEFLQKEIDPDEKTLVFI PN
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SeqID 160

MNKGLEFEKCKYSIRKFSGLGVASVMIGAAFFGTSPVLADSVQSGSTANLPADLATALATAKENDGRDFEAPKVGEDQGSPEVT
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KKGLTVDANGNATVDLTFKDDSEKGSRFGVFLKFKDTKNNVFGYDKDGFWEYKSPSTSTWYRGSRVAAPETGSTNRLSIT
LKSDGQLNASNNDVNLFDTVTLPAAVNDHLKNEKKILLKAGSYDDERTVVSVKTDNQEGVKTEDTPAEKETGPEVDDSKVITYD
TIQSKVLKAVIDQAFPRVKEYSLNGHTLPGQVQQFNQVFINNHRITPEVYKINETTAEYLMKLRDDAHLINAEMTVRLQVV
DNQLHFDVTKIVNHNQVTPQKIDDESLLSSISPLGNALVSVSSNQTGAKFDGATMSNNTHVSGDDHDIDVTNPMKDLAKGYM
YGFVSTDKLAAGVWSNSQNSYGGGSNDWTRLTAYKETVGNANYVGIHSSSEWQWEKAYKGI VFPYTKELPSAKVITEDANAD
KNVDWQDGAIAYRSIMNNPQGWEEKVKDITAYRIAMNFGSQAQNPFLMTLDGIIKKINLHTDGLQGQVLLKGYGSEGHDSGHLNY
ADIGKRIGGVEDFKTLIEKAKKYGAHLGIHVNASETYPEKSYFNEKILRKNPDGSSYSGWNWLDQGINIDAAYDLAHLARLW
EDLKKKLGDGLDFIYVDVWNGQSGDNGAWATHVLAKEINKQGWRFALIEWGHGGEYDSTFHHWAADLTGGYTNKGINSATIR
FIRNHQKDAWVGDIYRSYGAANYPLLGGYSMKDFEGWQGRSDYNGYVTLNFAHDVMTKYFQHFTVSKWENGTPVMTDNGSTY
KWTPEMRVELVDADNNKVVTTRKSNVDNSPQYRERTVTTLNGRVQDGSAYLTPWNWDANGKKLSTDKEKMYFNTQAGATTWT
LPSDWAKSKVLYKLTQDGKTEEQELTVKDGKITLDDLANQPYVLYRSKQTNPEMSWSEGMMHIYDQGFNSGTLKHWITISGDAS
KAEIVKSQGANMMLRIQGNKEKVSILTQKLTGLKPNTKYAVYGVNRSNAKASITVNTGEKEVTTYTNKSLALNYVKAYAHNT
RRDNATVDDTTSYFQNMAYAFFTTGADVSNVTLTLSREAGDQATYFDEIRTFENNSSMYGDKHDTGKGTFFKQDFENVAQGIFFPV
VGGVEGVEDNRTLSEKHNPYTQRGWNGKKVDDVIEGNWSLKTNGLVSRRLVYQTI PQNFRFEAGKTYRVTFEYAGSDNTY
AFVVGKGEFQSGRRGTQASNLEMHELNTWTDSKKAKKATFLVTGAETGDTWVGIIYSTGNASNTRGDSGGNANFRGYNDFMMD
NLQIEEITLTGKMLTENALKNYLPTVAMTNYTKESMDALKEAVFNLSQADDDISVEEARAEIAKIEALKNALVQKKTALVADD
FASLTAPAQAQEGLANAFDGNVSSLWHTSWNGGDVGKPATMVLKEPTEITGLRYVPRGSGSNGNLRDVKLVVTDSESGKEHTFT
ATDWPNNNKPDIDFGKTIKAKKIVLTGTKTYGDGGDKYQSAELIFTRPQVAETPLDLSGYEAALVKAQKLTDKDNQEEVAS
VQASMKYATDNHLLTERMVEYFADYLNQLKDSATKPDAPTVEKPEFKLRLSLASEQGKTPDYKQEIARPETPEQILPATGESQS
DTALILASVSLALSALFVVVTKTKD

SeqID 161

MNKPTILRLIKYLSISFLSLVIAAIVLGGGVFFYYVSKAPSLSESKLVATTSSKIYDNKNQLIADLGSERRVNAQANDIPTDL
VKAIVSIEDHRFFDHRGIDTIRILGAFRLNLQSNLSQGGSTLTQOLIKLTYFSTSTSDQTI SRKAQEAWLAIQLEQKATKQEI
LTYINKVMSNGNYGMQTAQNYGKDLNLSLPQLALLAGMPQAPNQYDPYSHPEAAQDRRLVLSEMKNQGYISAEQYK
AVNTPITDGLQSLKASQNYPAYMDNYLKEVINQVEETGYNLLTTGMDVYTNVDQEAQKHLWDIYNTDEYVAYPDDELQVAST
IVDVSNGKVIAQLGARHQSSNVSGINQAVETNRDWGSTMKPITDYAPALEYGVYDSTATIVHDEPYNYPGTNTPVYNWDRGY
FGNITLQYALQSSRNVPVAVETLNKVLNRAKTFNLGLGIDYPSIHSNAISSNTTESDKYGASSEKMAAAYAAFANGGTYK
PMYIHKVVFSDGSEKEFSNVGTRAMKETAYMMTDMMTVLTGYGTGRNAYLAWLPQAGKTGTSNYTDEEIHNTSQQFVAPD
ELFAGYTRKYSMAVWTGYSNRLTPLVGNGLTVAKVYRSMMTYLSEGSNPEDWNIPEGLYRNGEFVFKNGARSTWNSPAPQQP
PSTESSSSSSSDSSTSTPSTNNSTTTNPNNNNTQQSNTTPDQONQNPQPAQP

SeqID 162

MSKRRNRHKKEGQEPQDFDEAKELTVGQAIRKNEEVESGVLPEDSILDKYVKQHRDEIEADKFATRYKKEEFVETQSLDD
LIQEMREAVEKSEASSEFVPSSEDILLPLPLDDEQGLDPLLLDDENPTMTTEVEVEEQNLSRLDQEDSEKSKKGFILTVLA

LVSVIICVSAYYVYRQVARSTKEIETSQSTTANQSDVDDFNTLYDAFYTDSNKTALKNSQFDKLSQLKTLDDKLEGSREHTLA
KSKYDSLATQIKAIQDVNAQFEKPAIVDGVLDTNAAKAKSDAKFTDIKTGNTELDKVLDKAIISLGKSQQTSTSSSSSSQTS
SSQASSNTTSEPKPSSSNETRSSRSEVNMGSSAGVAVQRSASRVAYNQSAIDDSNNSAWDFADGVLEQILATSRSRGYITGD
QYILERVNIVNGNGYNYLYKPDGTYLFTLNCKTGTFVNGAGHADDLDY

SeqID 163

MKLLKKMMQVALAVFFFFGLLATNTVFAANTTGRFVDKDNRYVYKDDHKAIYWHKIDGKTYFFGDIGEMVVGWQYLEIPGTGY
RDNLFQNPVNEIGLOEKWYFFGQDQDGLLEQTDKQVLEAKTSENTGKVYGEQYPLSAEKRTYFFDNNAVKTGWIYEEGHWWY
LNKLGNFQDSSYNPLPIGEVAKGWTQDFHVTIDIDRSKPAPWYLLDASGKMLTDWQKVNKGWYFFGSSGSMATGWKYVRGKWY
YLDNKNKGMKMTGWQYLGKWKYLLRSSGAMVTGWYQDGSWYLLDPSNGDMKIGWTKVNGKWYLLNSNGAMVTGSQTIDGKVYN
FASSGEWI

SeqID 164

MKILKKTMOVGLTVFFFFGLLGSTVFAADDSEGQFVQENGRTYKKGDLKETYWRVIDGKYYYFDSLSEGMVVGWQYIIPFPSK
GSTIGPYPNGIRLEGFPKSEWYFFDKNGVLQEFVGWKTLEIKTKDSVGRKYGEKREDSSEKKEKRYTNYFFNQNSLETGWL
YDQSNWYLLAKTEINGENYLGGERAGWINDDSTWYLLDPTTGIMQGTGWQYLGKWKYLLRSSGAMATGWYQEGTTWYLLDHPN
GDMKMTGWQNLGKWKYLLRSSGAMATGWYQDGSWYLLNAGNGDMKMTGWQFQVNGNWWYAYSSGALAVNTTVDGYSVNYNGEWR

SeqID 165

MVLSKYYGVADGMNVEGRGSANFIKDNVLITAAHNYRHDYGEADDIYVLPVSPSQEPFGKIKVKEVRYLKEFRNLNSKDA
REYDLALLILEEPIGAKLGTGLPTSQKNLTGITVTITGYPSYNFKIHQMYTDDKKQVLSDDGMFLDYQVDTLEGSSGSTVYDA
SHRVGVHTLGDGANQINSAYKLNERNLPFIYSVLKGYSLGKWKINGSWYHYRQHDKQGTGWQEIINDTWYLLDSSGKMLTDWQ
KVNGKWYLLNSNGAMVTGSQTIDGKVYNFASSGEWI

SeqID 166

LMKKTFFLLVLGLFCLLPLSVFAIDFKINSYQGDLYIHADNTAEFRQKIVYQFEEDFKGQIVGLGRAGKMPSGFDIDPHPKIQ
AAKNGAELADVTSEVTEADGYTVRVYNPGQEGDIVEVDLVWNLKLLFLYDDIAELNWQPLTDSSESIEKFEFHVGRDGKGA
KLFFHTGKLFREGTIEKSNLDYTIRLDNLPAKRGVELHAYWPRTDFASARDQGLKGNRLEEFNKIEDSIVREKQSKQLVTWV
LPSILSISLLSVCFYFIYRKTTPSVKYAKNHRLEYEPPMELEPMVLSHAVYSTSLEEVSPLVKGAGKFTFDQLIQATLLDVI
DRGNVSIISSEDAVGLRLVKEDGLSSFEKDCNLAFSGKKEETLSNLFADYKVSDSLRYRRAKVSDEKRIQARGQLKSSFEV
LNQMQEGVRKRVSFWGLPDYRPLTGGEKALQVGMGALTILPLFIGFLFLYSLDVHGYLYLPLPLGLGLVLSVFYWKLR
LDNRDGVNLNEAGAEVYLLWTSFENMLREIARLDQAELESIVVWNRLLVYATLFGYADKVSMLMKVHQIQVENPDINLYVAYGW
HSTFYHSTAQMASHYASVANTASTYSVSSGSGSSGGGFGSGGGGGSIGAF

SeqID 167

MKSINKFLTMLAALLLTASSLFSAAATVFAAGTTTTSVTVHKLLATDGDMDKIANELETGNYAGNKVGVLPANAKEIAGVMFVW
TNTNNEIIDENGQTLGVNIDPQTFKLSGAMPATAMKKLTEAEGAKFNTANLPAKYKIYEIHSLSSTYVGEDGATLTGSKAVPI
EIELPLNDVVDHAVYPKNTAKPKIDKDFKGANPDTPRVDKDTPVNHQVGDVVEYEIVTKIPALANYATANWSDRMTEGLAF
NKGTVKVTVDVDALEAGDYALTEVATGFDLKLTDAGLAKVNDQNAEKTVKITYSATLNDKAIVEVPESNDVTFNYGNNPDHGN
TPKPNKPNENGDLTLTKTWVDATGAPIPAGAEATFDLVNAQTGKVVTTLTDDKNTVTVNGLDKNTYKFFVERSIKGYSDY
QBITTAGELIAVKNWKNENPKPLDPTPEPKVVTYGGKFVKVNDKDNRLAGAEFVIANADNAGQYLARKADKVSQEEKQLVVTTKD
ALDRVAAYNALTAQQQTQOEKEKVDKAQAAYNAAVIAANNAFEWVADKDNENVVKLVSDAQGRFEITGLLAGTYYLEETKQP
AYALLTSRQKFEVTATSYSATGQGIETAGSGKDDATKVVNKITIPQTGGIGTIIFAVAGAAIMGLAVYAVKNNKDEDQL
A

SeqID 168

MAVMAYPLVSRLYYRVESNQIADFDKEKATLDEADIDERMKLAQAFNDSLNNVSGDPWSEEMKKKGRAEYARMLEIHERMG
HVEIPVIDVDLPVYAGTAEVLQQAGHLEGTSPLPIGGNSTHAVITAHTGLPTAKMFTDLTKLVGDKFYVHNIKEVMAYQVD
QVKVIEPTNFDDLLIVPGHDYVTLTCTPYMINTHRLLVGRHRIPYVAEVEEEFIAANKLSHLYRYLFYVAVGLIVILLWIIR
RLRKKKKQPEKALKALKAAKEVKVEDGQQ

SeqID 169

MSRTKLRLALLGYLLMLVACLIPYICFGQMVLQSLGQVKGHATFVKSMTTEMYQEQQNHSLAYNQRLASQNRIVDPFLAEGYEV
NYQVSDDDPDVYGYLSIPSLEIMEPVYLGADYHHLGMGLAHVDGTPLPLDGTGIRSVIAGHRAEPSHVFRHLDQLKVGDALY
YDNGQEIVEYQMMDEIILPSEWEKLESVSSKNIMTLITCDPIPTFNKRLLVNFERVAVYQKSDPQTAAVARVAFTKEGQSVS
RVATSQWLYRGLVVLAFGLFVLWKLARLLRGK

SeqID 170

MKNPFFERRCRYRIRKLSVGACSLMIGAVLFAGPALAEETAVPENSANGANTELVSGESEHSTNEADKQNEGEHARENKLEKAEG
VAIASETASPASNEAATTETAEASAAKPEEKASEVVAETPSAEAKPKSDKETEAKPEATNQGDSEKPAABANKTEKEVQPDV
PKNTEKTLKPEIKFNSWEELLKWEPEGAREDDAINGSVVLASRRTHGLVNEKASKEAKVQALSNTNSKAKDHASVGGEEFKA
YAFDYWQYLDMSVFWGLVPTPDVIDAGHRNGVPVYGTLPFNWSNSIADQERFAEALKQDADGSFPIARKLVDMAKYGYDGY
FINQETTGDLVKPLGEKMRQFMLSKEYAAKVNHPKIYSWYDAMTYNRYHQDGLGEYNYQFMQPEGDKVPADNFFANFNWD
KAKNDYTIATANWIGRNPYDVFAGLELQGGSYKTKVKNWDILDENGKLRLSLGLFAPDTITSLGKTGEDYHKNEDIFFTGQYQ
GDPTGQKPGDKDWYGIANLVADRTPAVGNTFTTSFNTGHGKKWFVDGKVSVDSEWNYRSVSGVLPTRWWQTSTGEKLAERYD
FTDAYNGGNSLKFSGDVAGKTDQDVRLYSTKLEVTETKTLRVAHKGKGSKVYMAFSTTDPYKFDADAWKELTSLDNWNTNEE
FDLSSLAGKTIYAVKLFFEHGAVKDYQFNLGQLTISDNHQEPQSPSTFSVVKQSLKNAQEAFAVQFQKGNKADAFYEVYEK
GDSWKLLTGSSSTTIYLPKVSRSASAQGTQELKVAVGKNGVRSEAATTTFDWGMTVKDTSLEKPLAENIVPGATVIDSTFP

KTEGEGEGIEGMLNGTITSLSDKWSSAQLSGSVDIRLTKPRTVVRVMDHAGAGGESVNDGLMNTKDFDLYYKADADGEWKLAK
VRGNKAHVTDITLDPKPIAQAQDRLNVVTSNDNGTPWKAIRIYNWKMYEKLDTESVNIPMAKAAARSLGNNKQVGVFADVPAGAT
ITVYDNPNSQTPLATLKSEVGDDLASAPLIDLNTQSGLLYYRTQLPGKEISNVLA VSPKDDRRIKSVSLETGPKKTSYAEGED
LDLRGGVLRVQYEGGTEDELIRLTHAGVSVSGFDTHHKGQNLTLQYLGQPVNANLSVTVTGQDEASPKTILGIEVSQEPKKD
YLVGDSLSDLSEGRFAVAYSNDTMEEHSFTDEGVEISGYDAQKTGRQTLTLHYQGHEVSFDVLVSPKAALNDEYLYKQKLAEVEA
AKNKVVYNFASSEVKEAFLKAIEAEQVLKDHETSTQDQVNDRLNKLTEAHKALNGQEKFTTEKTELDRLTGVEVQELLAAXPN
HPSGSALAPLLEKNKALVEKVDLSPEELTTAKQSLKDLVALLKEDKPAVFSKSTGVEVHFSNKEKTVIKGLKVERVQASAE
KKYFAGEDAHVFEIEGLDEKGDVDLSYASIVKPIEKDKKVKVFFLPEGKEAVELEAFEQTDSHVI FTAPHFTHYAFVYESA
EKPQPAKPAPQNTVLPKPTYQPTSDQKAPKLEVEQEKVAFHRQEHENTEMLVGEQRVVI IQGRDGLLRHVFEVDENGQRRLRS
TEVIQEAPEIVEIGTKVKTVPVAVATQEKPAQNTAVKSEASKQLPNTGTADANEALIALGLASLALTLRRKREDKD

SeqID 171

MSITSFVKRIQDITRNDAGVNGDAQRIEQMSWLLFLKIYDSREMVWELEEEYESI IPEELKWRNWAHAQNGERVLTGDELLD
FVNNKLFKELKELEITSNMPIRKTIKSAFEDANNYMKNGVLLRQVINVIDEVDENSPEDRHSFNDIYEKILKDIQNAGNSGE
FYTPRAATDFIAEVLDPKLGESMADLACGTGGFLTSTLNLSSQRLTSEDTKKYNTAVFGIEKKAFFHLLAVTNLFLHEIDDP
KIVHGNTLEKNVREYTDDEKFDIIMNPPFGGSELETIKNNFPABLRSSETADLFMAVIMYRLKENGVRGVILPDGFLFGEV
KTRLKQKLVDENLHTIIRLPHSVFAPYTGIIHTNIFFDKTKKTEETWFYRLDMPDGYKNFSKTKPMKSEHFNFPVRDWWENRE
EILEGKFYKSKSFTPSLAELNLYNDQCDPFKEEEEILNPFELIQNYQAERATLNHKIDNVLADILQLLEDK

SeqID 172

MNNTFEYDRLGVSKNASADEIKKAYRKLKSKYHPDINKEPGAEDKYKEVQEAETLSDDQKRAAYDQYGAAGANGGFGGAGGF
GGFNGAGGFGGFEDIFSSFFGGGGSSRNPNAPRQDDLYRVNLTFFEEAIFGTEKEVKYHREAGCRTCNNGSGAKPGTSPVTCG
RCHGAGVINVDQTPLGMMRRQVTCDCVCHGRGKEIKYPCCTCHGTGHEKQAHSVHVKIPAGVETGQQIRLAGQGEAGFNGGPY
GDLYVVVSVEASDKFEREGTTIFYNLNLNFVQAALGDTVDIPTVHGDVELVIPEGTQTGKKFRLRSKGA PSLRGGAVGDQYVT
VNVVTPGTGLNDRQKVALKEFAAAGDLKVNPKKKGFDFHIKDAFDGE

SeqID 173

MNPNLFRSVEFYQRRYHNYATVLIIPLSLLFTFILIFSLVATKEITVTSQGEIAPTSVIASIQSTSDNPILANHLVANQVVEK
GDLLIKYSSETMEESQKTALATQLORLEKQKEGLGILKQSLEKATDLFSGDEDFGYHNTFMNFTKQSHDIELGITKTNTESVNO
ANLSNSSSSAIEQEITKVQQQIGEYQELRDAIINNARLPTGNPHQSILNRYLVASQGGTQGTAEFPFLSQINQSIAGLESSI
ASLKIQQAGIGSVATYDNLATKIEVLRTQFLQTASQQQLTVENQLTELKVQLDQATQRLNNTLTSPSKGIHVHLNSEFEFGKN
RIPTGTETIAQIFPVIITDTREVLITYYVSSDYLPPLDKQGTVRLKLEKIGNHGTIIIGQLQTIDQTPTRTEQGNLFKLTALAKL
SNEDSKLIQYGLQGRVTSVTTKKTYFDYFKDKILTHSD

SeqID 174

MSKKLNRKKQLRNLRRAGAFSSSTVTKVVDETKKVVKRAEQSASAAGKAVSKKVEQAVEATKEQAQKVANSVEDFAANLGLP
LDRAKTFYDEGIKSASDFKNWTEKELLALKGIGPATIKKLKENGIFK

SeqID 175

LISLFLGLAAAPVQADTSIADIQKRGELVVGKQDVPNFGYKDPKTGTYSGIETDLAKMVADELKVIRYVPVTAQTRGPLLD
NEQVMDIATFTITDERKKLYNFTSPYYTDASGFLVNKSAKIKKIEDLNGKTIGVAQGSITQRLITELGKKKGLKFKFVELGS
YPELITSLHAHRIDTFSVDRSILSGYTSKR TALDDSFKPSDYGIVTKKSNTLNDYLDNLVTKWSKDGSLQKLYDRYKLPKS
SHTAD

SeqID 176

MSNISLTTLGGVRENGKNMYIAEIGESI FVLNVGLKYPENEQLGVDVVIPNMDYLFENS DRIAGVFLTHGHADAIGALPYLLA
EAKVPVFGSELTIELAKLFVKGNDVKKFNDHFVIDENTEIDFGGTVVSFFPTTYSVPESLGIVLKTSEGSIVYTGDFKFDQT
ASESYATDFARLAEIGRDGVLALLSDSANADSNIQVASESEVRDEITQTIADWEGRIIVAAVSSNLSRIQQIFDAADKTGRRI
VLTFGDIENIVRTAIRLKLKSLANEILLIKPKDMSRFEDHELIILETGRMGEPINGLRKMSIGRHRYVEIKDGLVYIATAPS
IAKEAFVARVENMIYQAGGVVKLITQSLHVS GHGNVRDLQLMINLLQPKYLFVPVQGEYRELDHAKAAMAVGMLPERIFIPKK
GTTMAYENGDFVPAGSVSAGDILIDGNAIGDVGNVLRDRKVLSEGDGIFIVAITVNRREKKIVARARVHTRGFVYLKKSRIIL
RESSELINQTVEEYLQGD DFDWADLKGKVRDNLTKYLFQDKRRPAILPVVMEAK

SeqID 177

MKKSTVLSLTAAVILAAYAPNEVVLADTSSSEDALNISDKEKVAENKEKHENIHSAMETSQDFKEKKTAVIKEKEVSKNPV
IDNNTSNEEAKIKEENS NKSQGDYTD SFVNKNTENPKKEDKVYIAEFKDKESGEKAIKELSSLKNTKVLYTYDRIFNGSAIE
TTPDNLDKIKQIEGISSVERAQKVQPMNHNARKEIGVEEAIDYLS INAPFGKNFDGRGMVISNIDTGTDRHKAMRIDDAK
ASMRFKKEDLKGTDKNYWLSDKIPAHFNYYNGGKITVEKYDDGRDYFDPHGMHIAIGILAGNDTEQDIKNFNGIDGIAPNAQIF
SYKMYSDAGSGFAGDETFHAIEDSIKHNVDVSVSSGFTGTGLVGEKYWQAIRALRKAGIPMVVATGNYSATSSSSSWDLVA
NNHLKMTDTGNVTRTAHEDAIAVASAKNQTVFEDKVNIGGESFYKRNIGAFFDKSKITTNEDGTKAPSKLKFVYIGKGQDQD
LIGDLRGKIAVMDRIYTKDLKNAFKKAMDKGARAIMVNVNYYNDRNWTLPAMGYEADGTRKSQVFSISGDDGVKLWNMI
NPDKKTEVKRNKEDFKDKLEQYYPIDMESFNSNKNPVGDEKEIDFKFAPDTDKELYKEDIIVPAGSTSWGPRIDLLKPDVS
APGKNIKSTLNVINGKSTYGYMSGTSMATPIVAASTVLIRPKLKEMLERPVLKNLKGDDKIDLTSLTKIALQNTARPMMDATS
WKEKSQYFASPRQQAGLINVANALRNEVVATFKNTDSKGLVNSYSGISLKEIKGDKKYFTIKLHNTSNRPLTFKVSASAITT
DSLTDRLKLDETYKDEKSPDGKQIVPEIHPEKVKGANITFEHDTFTIGANSSFDLNAVINVGEAKNKNKFVESFIHFESVEEM
EALNSNGKKINFQPSLSMPLMGFAGNWNHEPILDKWAWEEGSRSKTLRGVYDDGKPKIPGTLNKGIGGEHIDKFNPAQVIQN
RKDKNTTSLDQNPFLFAFNNEGINAPSSSGSKIANIYPLDSNGNPQDAQLERGLTPSPLVLSAEGLISIVNTNKEGENQD
LKVISREHFIRGILNSKSNDAKGIKSSKLKVWGDGLKWDGLIYNPRGREENAPESKDNQDPATKIRGQFEPIAEGQYFYKFKYR

LTKDYPWQVSYIPVKIDNTAPKIVSVDFSNPEKIKLITKDTYHKVKDQYKNETLFARDQKEHPEKFDEIANEVWYAGAALVNE
DGEVEKNLEVTYAGEGQGRNRKLDKDGNTIYEIKGAGDLRGKIEVIALDGSSNFTKIHRIFKANQADEKGMISYVLVDPDQD
SSKYQKLGEIAESKPKNLGNGKEGSLKDDTGVVEHHHQENEESEKSSFTIDRNISTIRDFENKDLKLLIKKKFREVDFTS
ETGKRMEEDYDYDDKGNIIAYDDGTDLEYETEKLEIKSKIYGVLSPSKDGHFELGKISNVSKNAKVYGNYSIEIKAT
KYDFHSTMTFDLYANINDIVDGLAFAGDMRLFVKDNDQKKAEBIKIRMPKIKETKSEYPYVSSYGNVIELGEGDLSKNKPDN
LTKMESGKIYSDSEKQOYLLKDNIIIRKGYALKVTTYNPNGKTDMLLEGNGVYSKEDIAKIQKANPNLRALSETTIYADSRNVED
GRSTQSVLMSALDGFNIIRYQVFTFKMNDKGEAIDKDGNLVTDSSKLVLFKGDDKEYTGEDKFNVEAIKEDGSMFLFIDTKPVN
LSMDKNYFNPSKSNKIYVRNPEFYLRGKISDKGGFNWELRVNESVVDNYLIYGDHLIDNTRDFNIKLVNKDGDIMDWGMKDYK
ANGFPDKVTDMDGNVYLQGTGYSDLNKAVGVHYQFLYDYNVKEPVNIDPKGNTSIEYADGKSVVFNINDKRNNGFDGEIQEQHI
YINGKEYTSFNDIKQIIDKTLNIIKIVVKDFARNTTVKEFILNKDTEGVSELKPHRVTVTIQNGKEMSSTIVSEEDFILPVYKG
ELEKGYQFDGWEISGFEGKKDAGYVINLSKDTFIKPVFKKIEEKEBENKPTFDVSKKDNPNQVNHSQLNESHKEDLQREEH
SQKSDSTKDVATVLDKNNISSKSTTNPNKLPKTGTASGAQTLAAGIMFIVGIFLGLKKNQD

SeqID 178

MGKGHWNRKRVSIRKFAVGACSVMIGTCAVLLGNGNIAGESVYADETLITHTAEPKPEEKMIVEEKADKALETKNIVERTEC
SEPSSTEAIASEKKEDEAVTPKEEKVSAPKEEKAPRIESQASNQEKPLKEDAKAVTNEEVNQMIEDRKVDNQNWFYKLNANS
KEAIKPDADVSTWKKLDDLPYDWSIFNDFDHESPAQNEGGQLNGGEAWYRKTFKLDEKDLKKNVRLTFDGVYMDSSQVYVNGQLV
GHYPNGYNQFSYDITKYLQKDGRENVIHAVNKKQSSRWYSGSGIYRDVTLQVTDKVHVEKNGTTILTPKLEEQQHKGKVEVE
VTSKIVNTDDKDHLEVAEYQIVERGGHAVTGLVRTASRTLKAHESTSLDAILEVERPKLWTVLNDKPALYELITRVYRDGQLV
DAKKDLFGYRYHWTPEGFSLNGERIKFHGVSLHHDHGALEENYKAEYRRLKQMKEMGVNSIRTTNHPASEQTLQIAAEI
GLLVQEEAFDTWYGGKKPYDYGRFFEKDATHEARKGEKWSDFLRTMVERGKNNPAIFMWSIGNEIGEANGDAHSLATVKRI
VKVIKDVDKTRYVTMGADKFRFGNGSGGHEKIADELDAVGFNYSEDNYKALRAKHPKWLIIYGSETSSATFRGSSYRPERELF
HSNGPERNYEQSDYGNDRVWGKTTATASWTFDRDNAGYAGQFIWGTDTYIGEPTPWHNQNQTPVKSSYFGIVDTAGIPKHDFY
LYQSQWVSVKKPMVHLLPHWNWENKELASKVADSEGKIPVRAYSNAASSVELFLNGKSLGLKTFNKKQTSQDGRTYQEGANANE
LYLEWKVAYQPGTLEAIARDESKEIARDKITTAGKPAAVRLIKEDHAIADGKDLTYIYYEIVDSQGNVPTANNLVRFLQLE
GQQQLVGVNDGEQASRERYKAQADGSWIRKAFNGKGVATVKSSTEQAGKFTLTAHSDLLKSNQVTVFTGKKEGQEKTVLGTEVI
KVQTIIGEAPEMPTTVFVYSYDGSRAERPVTWSSVDVSKPGIIVTVKGMADGREVEARVEVIALKSELPPVKRIAPNTDLNSVI
KSVSYVLIDGSSVEEYEVDKWEIAEEDKAKLAIPGSRIQATGYLEGQPIHATLVVEEGNPAAPAVPTVTVGGEAVTGLTSQKPI
QYRTLAYGAKLPEVTASAKNAAVTVLQASAANGMRASIFIQPKDGGPLQTYAIFLEEAPKIAHLSLQVEKADSLKEDQTVKI
SVRAHYQDGTQAVLPADKVTFFSTSGEGEVAIRKGMLELHKPGAVTLNAEYEGAKDQVELTIQANTEKKIAQSIRPVNVVTDLE
QEPSLPATVTVEDYKGFPKTHKVTWQAIPEKELDSYQTFEVLGKVEGIDLEAKVSVSEVSVVTPPIAEAPQLPES
RTYDSNGHVSSAKVAVDAIRPEQYAKEGVFTVNGRLEGTQTLTKLHVRVSAQTEQGANISDQWGTGSELPLAFASDSNPSPDV
NVNDKLISYNNQPANRWTNWNRNTEASVGVLFQDGSILSKRSVDNLSVGFHEDHGVGVPKSVYIEYVVGKTVPTAPKNPSF
GNEDHVFNDSANWKPVTNLKAPQLKAGEMNHFSFDKVEYAVRIRMVKADNKRGTSSITEVQIFAKQVAAAKQGGQTRIQVDGF
DLANFNPDLDYDLESVDGKVPATASVSNGLATVPSVREGEPPVRVIAKAENGIDILGEYRLHFTKDKSLLSHKPVAAVKQ
RLLQVGQALELPTKVPVYFTGKDGYETKDLTVWEVEEVAENLTAKQFTVVRGVLGSNLVAEITVRVTDKLGTELSDNPNYDI
NSNQAFASATNDIDKNSHDRVLDNDGDHSENRRWNTWSPTSSNPEVSAGVIFRENGKIVERTVQGVQFVFDGSDQDAPS
LVLERYVGPEFEVPTYYSNYQAYDADHPFNPNPENWEAVPYRADKDIAAGDEINVTFKAIKAKAMRWRMERKADKSGVAMIEM
FLAPSELQESTQSKILVDGKELADFAENRQDYQITYKQRPKVSVEENNQVASTVVDSDGDSFPVLVRLVSESQKQVKEYRJ
HLTKEKPVSEKTVAAVQEDLPKIEFVEKDLAYKTVEKDDSTLYLGETRVEQEGKVGKERIFTAINPDGSKBEKLEVEVEVPTI
RIVLVGTKPVQAQEAKKPQVSEKADTKPIDSSSEASQTNKAQLPSTGSAASQAAVAAGLTLLGLSAGLVVTKGKED

SeqID 179

MAPSVDAATYHYVNKEIISQEAKDLIQTGKPDRENVVYGLVYQKDLQPLQTGTEASVLTAFGLLTGVSLLLLIYKRKKIASVFI
VGAMGLVVLPSAGAVDPVATLALASREGVVEMEGYRYVGYLSGDLKTLGLDVTLEETSAPKGEVTVVEVETPQSITNQEQAI
TENQVVEEAPKEEAPKTESPKEPKSEVKPTDDTLPKVEEGKEDSAEPAPVEEVGGEVESKPEEKVAVKPESQPSDKPAI
ESKVEQAGEPVAPREDEKAPVEPEKQPEAPEEEKAVEETPKQEESTPDTKAEETVEPKEETVQNQIEQPKVETPAVEKQTEP
EEPKEVQAGEPVAPREDEQAPTAPVEPEKQPEVPEEEKAVEETPKPEDKIKGIGTKPEVVKSELNNQIDKASSVSPDYSTA
YNALGPVLETAAGVYASEPVKQPEVNSETNKLKTAIDALNVDKTELNNTIADAKTKVKEHYSRDSWQNLQTEVTKAEKVAAN
DAKQSEVNEAVEKLTAIEKLVELSEKPIILTLTSTDKKILEREAVAKYTLENQNKTKIKSTIAELKKGEVINTVVLTDKVT
TETISAAFNLEYKEYTLSTMTIYDRNGEETETLENQNIQLDLKKVELKNIKRTDLIKYENGKETNESLITTIPTDKSNY
LKITSNNQKTTLLAVKNIETTVNGTPVYKVTALADNLVSRADNKFEEYVHYIEKPKVHEDNVYVNFELVEAIQNDPSKI
YRLGQSMSARNVVPNGKSYITKEFTGKLLSSEGKQFAITELEHPLFNVITNATINNENFENVEIERSQDNINSLANTMKGS
VITNVKITGTLSGRNNVAGFVNMMNDGTREINVAFFGKLHSTSGNSHTGGIAGTNYRGIVRKAYVDATITGNKTRASLLVPI
VDYGLTLDHLIGTKALLTESVVKGIDVSNPVEVGAIASTKTPVGTVSNSVYAKIIRGEELFGSNDVDDSDYASAHIKDLY
VEGYSSGNRSFRKSKTFTKLTKEQADAKVTTFNITADKLESLSPLAKLNEEKAYSSIQDYNAEYNQAYKNLEKLIPIFYNKD
IVYQGNKLNKEHHLNLTKEVLSVTAMNNNEFTINLDEANKIIVHYADGTDYFNLSSSSSEGLSNVKEYTITDLGIKYTPNIVQ
DNTTLVNDIKSILESVELQSQTMYQHLNRLGDYRVNAIKDLYLEESFTDVKENLTNLITKLQVNEEHQLNDSPAARQMIRDK
EKNKAALLGLTYLLNRYGVKFGDVNIKELMLFKPDFYGEKVSVDRLIIBIGSKENNIKGSRTFDAGQVLAKYTKSGNLDAI
LNYNRQLFTNIDNMNDWIFIDATEDHVIYAEERASEVEEIKNSKHRAFDNLKRSHLRNTILPLLNIDKAHLYLISNYNAIAGFS
ERLGGKSLEDIKDIVNKAADGYRNYDFWYRLASDNVQRLLRDAVPIWEGYNAPGGWVEKYGRYNTDKVYTPLEFFFGPMI
KYNYNGTGAYAAIYPNSDDIRTDVKYVHLEMVGEYGISVYTHETTHVNDRAIYLGFGHREGTDAEAYAQGMQLQTPVTGSGI
DEFGSLGINMVFKRNDGNQWYITDPKTLKTREDINRYMKGYNDTLTLDEIEAESVISQONKDLNSAWFKKIDREYDRNNKI
NQWDKIRNLSQEEKNELSIQSVNDLVDQQLMTNRNPNNGIYKPEAISYNDQSPYVGRMMGTIYGNTSKGAPGAVSFKHNAI
RLWGYGYENGFLGYASNKYKQSKTDGESVLSDEYI IKKISNNTFNTIEEFKAYFKEVKDKATKGLTTFEVNGSSVSYDI
LLTLFKEAVKDAETLKQEANGNKTVMNNTVKLKEAVYKLLQQTNSFKTSIFK

SeqID 180

MNKRLFSKMSLVTLPLALFSQSVLAEEINHFSSCKEAWANGYSIDHEGEPGYSAKLDRDHDGVACELKNAPKGAFKAKQSTA
IQINTSSATTSGWVKQDGAWYFYFDGNGNLVKNWQGSYYLKADGKMAQSEWIYDSSYQAWYYLKS DGSYAKNAWQGAYYLKS
GKMAQGEWYDSSYQAWYYLKS DGSYARNAWQGNYYLKS DKGMAKGEWYDQAWYYLTS DGSYAYSTWQGNYYLKS DGM
AVNEWVDGGRYVVGADGVWKEVQASTASSNSNSSEYSAALGKAKSYNSLFHMSKKRMYRQLTSDFDKFSNDAAQYAIHDLDD

SeqID 181

MKVIDQFKNKKVLVLGLAKSGESAARLLDKLGAIVTVNDGKPFEDNPAAQSLLLEGIKVITGGHPLELLDEEFALMVKNPGIP
YNNPMIEKALAKGIPVLTEVELAYLISEAPIIGITGSNGKTTTTTIGEVLTAAQGHLLSGNIGYPASQVAQIASDKDTLVM
ELSSFQLMGVQEFHPEIAVITNLMPHIDYHGSFSEYVAAKWNIONKMTAADFLVLNFNQDLAKDLTSKTEATVVPFSTLEKV
DGAYLEDGQLYFRGEVMAANEIGVPGSHNVENALATIIVAKLRDVDNQTIKETLSAFGGVKHRLQFVDDIKGVKFYNDKST
NILATQKALSGFNSKVLIAGGLDRGNEFDELVPDITGLKKMVLIGQSAERVKRAADKAGVAYVEATDIADATRKAYELATC
GDVVLLSPANASWDMYANFEVRGDLFIDTVAELKE

SeqID 182

MKKKFALS FVALASVALLAACGEVKS GAVNTAGNSVEEKTIKIGFNFEESGSLAAYGTAEQKGAQLAVDEINAAGGIDGKQIE
VVDKDNKSETAEAA SVTNLTQSKVS AVVGPATSGATAAAVANATKAGVPLISPSATQDGLTKGQDYLFITGTFQDSFQGGKII
SNYVSEKLNKAKKVLYTDNASDYAKGIKSFRESYKGEI VADETFVAGDTDFQAALTKMKGKDFDAIVVPGYYNEAGKIVNQ
RGMGIDKPIVGGDGFNGEEFVQQAATAEKASNIYFISGFS TTVEVSAKAKAFLDAYRAKYNEEPSTFAALAYDSVHLVANAAC
AKNSGEIKNNLAKTKDFEGVTGQTSFDADHNTVKTAYMMTMNNGKVEAAEVVKP

SeqID 183

MSILEVKNLSHGFGDRAIFEDVSFRLLKGEHIGLVGANGEGKSTFMSIVTGKMLPDEGKVEWSKYVVTAGYLDQHSVLAERQSV
RDVLRATFDELFKAEARINDLYMKMAEDGADVDALMEEVGELQDRLES RDFYTLDAKIDEVARALGVMDFGMDTDVTSLSGGC
RTKVLLAKLLLEKPDILLDEPTNYLDAEHIDWLKRYLQNYENAFVLISHDIPFLNDVINIVYHVENQQLTRYSGDYQFQEV
YAMKKSQLEAAAYERQKQEBIADLKDFVARNKARVATRNAMMSRQKLDKMDIIELOSEKPKPSFDFKPARTPGRFIFQAKNLQI
GYDRPLTKPLNLTFRNQKVAIIGANGIGKTTLLKSLGIIISP IAGEVERGDYLELGYFEQEVEGGNRQTPLEAVWNAFPALN
QAEVRAALARCGLTTKHIESQIQVLSGGEQAKVRFCLLMNRENNVLVLDEPTNHLVDVAKDELKRALKEYRGSILMVCHPEPDE
YEGWIDQIWDFFNNLT

SeqID 184

MKKKNGKAKKWQLYAAIGAASVVVLGAGGILLFRQPSQTALKDEPHTLVVAKESVASSVLLSGTVTAKNEQYVYFDASKGDI
DEILVSVGDKVSEGOALVKYSSSEAQAAYDSASRAVARADRHNELNQARNEAASAPAPQLPAPVGGEDATVQSPTPVAGNSV
ASIDAQLGDARDARADAAAQLSKAQSQLDATTVLSTLEGTVEVNSNVSKSPGTGASQVMVHIVSNENLQVKGELSEYNLANLE
VGQEVSTSKVYPDKKWTGKLSYISDYPKNNGEASPAAGNNTGSKYPYTIDVTGEVGDLDKQGFVNI EVKSKTKAILVPVSE
LVMDDSKNYVWVDEQKAKKVEVSLGNADAENQEITSGLTNGAKVISNPTSSLEEGKEVKADEATN

SeqID 185

SETNHEIDSNFAGRLNLRAGVLDANDGIIISIAGVVIGVASATTNIWIIFLSGFTAILAGAFSMAGGEYVSVSTPKDTEEAAY
SREKLLLDQDRELAKKSLYAAYIQNGEFKTSQALLTNKIIFLKNPLKALVEEKYIEYEEFTNPWHAAISSFVAFFLRSLPPMI
SVTIFPSDYRIPATVLIVGVALLTGYTSARLGKAPTKTAMIRNLAIGLLTMGVTFLLGQLFSI

SeqID 186

MKKKLTSLALVGAFLGLSWYGNVQAQESSGNKIHFINVQEGGSDAIILESNHGFAMVDTGEDYDFPDGSDSRYPWREGIETSY
KHVLTDRVFRRLKELGVQKLDLILVTHSHDHIGNVDELLSTYFVDRVYLKKYSDSRITNSERLWDLNLYGYDKVLQTAAEKGV
SVIQNITQGDHAFQFGDMDIQLYNYENETDSSGELKKIWDNNSNLISVVKVNGKKIYLGGLDNDVHGAEDKYGPLIGKVDL
KFNHHDHTNKSNTKDFIKNLSPLIVQTSDSL PWKNGVDSEYVNWLEKGERIERINAASKDYDATVFDIRKDGFNISTSYKPI
PSFQAGWHKSAYGNWYQAPDSTGEYAVGWNEIEGEWYFNTQTGILLQNWKKWNHWFYLTDSGASAKNWKIAGIWIYYFNI
ENQMEIGWIQDKEQWYYLDVDGSMKTGWLQYMGQWYFAPSGEMKMGWVKDETWYIMDSTGVMKTGEIEVAGQHYLLEDSGF
MKQGWKKANDWYFYKTDGSRVAGWIKDKDKWYFLKENGQLLVNGKTPEGYTVDSGAWLVDVSIKESATIKTTSHEIKESI
EVVKDLLENKETSQHESTNFSTSQDLTSSTSQSSETSVNKSSESEQ

SeqID 187

MDLGPTQRGISVSVS QSYINVIAGLAGSEAAQIAERGIPVKLYEMRGVKSTPQHKTDNFAELVCSNSLRGDALTNVAGLLKE
EMRRLGSVILLESAAEATRVPAAGALAVDRDGFSGMVTEKVANHPLIEVVRDEITELPTDVTIATGELTSDALAETHALNDG
AGFYFYDAAAPIIDVNTIDMSKVYLKSRDYKGEAAYLNAPMTKQEFMDFHEALVNAEEAPLSSFEKEKYFEGCMPIEVMAKRG
IKTMLYGPMKPVGLEYPDDYTGPRDGEFKTPYAVVQLRQDNAAGSLYNI VGFQTHLKWGEQKRVFQMPIGLENAEFVRYGVME
RNSYMDSPNLLQTYRSKKQPNLFFAGQMTGVEGYVESAAAGSLVAGINAARLFKEESEAI FPETTAIGSLAHYITHADSKHFC
PMNVNFGIIKELEGERIRDKKARYEKIAERALADLEEFLTV

SeqID 188

MLIGIPKBIKNNENRVALTPAGVHSLVSRGHRVLIETNAGLGS GFTDADYQKQGAIEIVATAGEAWAAELVVKVKESSLSEYGY
LRDDLLLFTYLHMAAAPELADAMLTAKTTETVRDNQGGQLPLLVPMEVAGRMAVQIGAHFLTQAGGSGVLLGGVPGVPKGKV
TIIGGGVVGTHAARIALGLGAQVTILDISSKRLSVLEEVFGSQIQTLMNSNFNIEASVRDADVIGAILIPGAKAPELVTDEM
VKQMRPGSVSLTLLTKVALSKQLTVQRTMNPMSMKNTVFSTMPLPISLVRLLALQSPPPMSLFLISKLWLAKDSHKQSLKMKF
CVKVLLIKVTLTYQLLKDLIVTTLSIMI

SeqID 189

MKINKKYLAVSVAVLALSVCSEYELGRHQAGQVKESNRVSYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGYVTSH
GDHYHYNGKVPYDAIISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYLKDAHADNIRTKBEIKRQKQEHSHNHGG
GSNDQAVVAARAQGRYTDDGYIFNASDIIEDTGDAYIVPHGDHYHYIPKNELASSELAAAEAYWNGKQGSRPSSSSSYNANP
AQPRLESENHNLTVPTTYHQNGQENISSLLRELYAKPLSERHVESDGLIFDPAQITSRRTARGVAVPHGNHYHFIPIYEQMSELEK
RIARIIPLRYSRSHWVPSRPEQSPQSTPEPSPSPQAPNPQAPSNPIDEKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLS
AETAAGIDSKLAKQESLSHKLGAKTDLPSDREFYNKAYDILLARIHQDILLDNKGRQVDFEALDNLLERLKDVPSSDKVLVDD
ILAFAPIRHPERLGPNAQITYTDDDEIQVAKLAGKYTTEDGYIFDPRDITSDEGDAYVTPHMTSHWIKKDSLSAEARAAAC
AYAKEKGLTPSTDHQDSGNTREAKGAEAIYNRVKAACKVPLDRMPYNLQYTTVEVKNGSLIIPHYDHYHNIKFEWFDEGLYEAP
KGYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNKVQDQSKPDEDEKHEVSEPTHPESDEKENHAGLNPSADNLYKP
STDTEETEEEAEDTTDEAIPQVENSVINAKIADAEALLEKVTDPISIRQAMETLTGLKSSLLLGTKDNNTISAEVDSLLALL
KESQPAPIQ

SeqID 190

MKFSKKYIAAGSAVIVSLSLCAYALNQHRSQENKDNRRVSYVDGSSQSSQKSENLTDPQVSQKEGIAEQIVIKITDQGYVTSH
GDHYHYNGKVPYDALFSEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYLKDAHADNIRTKBEIKRQKQEHVKNKNEK
VNSNVAVARSQGRYTNDGYVFNPAIIEEDTGNAYIVPHGGHYHYIPKSDLSASELAAAKAHLAGKNMQPSQLSYSSTASDNN
TQSVAKGSTSKPANKSENLSLLKELYDSPAQRYSSESGLVDFPAKIIISRTPNGVAIPHGDHYHFIPIYKLSALEEKIARMV
PISGTGSTVSTNAKPNVSVSLGSLSSNPSSLTTSKELSSASDGYIFNPKDIVEETATAYIVRHGDHFIHYIPKSNQIQOPTLE
NNSLATPSPSLPINPGTSHKHEEDGYGFDANRIIAEDESFGVMSHGDHNYFFKKDLTBEQIKAAQKHLSEEVKTSNGLDSI
SSHEQDYPNAKEMKOLDKKIEEKIAGIMKQYGVKRESIVVNKEKNAIIPHGDDHHPIDIEHKPVGIGHSNHYELFKPEE
GVAKKEGKNVYTGEELTNVNNLLKNSTFNQNFNFTLANGQKRVSFSFPPELEKLGINMLVKLITPDGKLVLEKVSQKVFGEV
NIANFELDQPYLPQGTQFYTIASKDYPEVSYDGTFTVPTSLAYKMASQTIFFYPFHAGDTYLRVNPQFVAPKGTDALVRVDFE
HGDAYLENNYKVGELKPIPKLNQGTTRTAGNKIPVTFMANAYLDNQSTYIVEVPILEKENQTDKPSILPQFKRNKAQENLKI
DEKVEEPTSEKVEKEKLSSETGNSTNSSTLEEVPTVDPVQEKVAKFAESYGMKLENVLFNMDGTIELYLPSSGEVIKKNMADFI
GEAPQNGENKPSSENGKVSSTGTVENQPTENKPADSLPEAPNEKVPKPNSTDNMGLNPEGNVGSDDPMLDPALEEAPAVDPVQ
KLEKFTASYGLGLDSVIFNMDGTIELRLPSGEVIKKNLSDLIA

SeqID 191

MKILFVAAGAPFSKTGGLGDVIGALPKSLVKAGHEVAVILPYDMVEAKFGNQIEDVLHFEVSVGWRRQYCGIKKTVLNGVI
FYFIDNQYFFRGHVYGDFFDGERFAFFQLAAIEAMERIDFIIDLLHVHDYHTAMIPFLLKEKYRWIQAIEDIETVLTINHL
FQQGFSEGLGDLFGVGFERYADGTLRWNNCLNWMKAGILYANRVSTVSPSYAHEIMTSQFGCNLDQILKMESGKVSIGVINGI
DADLYNPQTDALLDYHFNQEDLSGAKNKAQKQERVGLPVRADVPLVGVISRLTRQKGFVVDVESLHHILOQEDVQIVLLGTGI
PAFEGAFSFAQIYPDKLSTNITFDVKLAQEIYAACDLFLMPSRFEPFCGLSQMMAMRYGTLPLVHEVGGRLDTRAFNPIEGE
GTGFSFDNLSPYWLNWTFQTALDLYRNHPDIWRNLQKQAMESDFSWDTACKSYLDLYHSLVN

SeqID 192

MEKYFGEKQERFSFRKLSVGLVSATISSLFMSVLASSSVDAQETAGVHYKYVADSELSSEEKKQLVYDIPTYVENDDETYI
VYKLSNQQLAELPNTGSKNERQALVAGASLAAMGILIFAVSKKKVKNKTVLHLVLVAGIGNGLVSVHALENHLLNNTDY
ELTSGELPLPKEISGYTYIGYIKEGKTSESEVSNQKSSVATPTKQKQVDYVNTPNFVDHPSTVQAIQEQTPVSSSTKPTVC
VVEKPFSTELINPRKEEKQSSDSQQLAEHKNLETKKEKISPEKTEGVNTLNPQDEVLSGQLNKPPELLYREETMETKIDFQ
EIQENPDLAEGTVRVKQEGKLGKKVEIVRISFVNKEEVSREIVSTSTTAPSPRIVEKGTQVIKEQPETGVEHKDVQSGAI
VEPAIQPELPEAVVSDKGEPEVQPTLPEAVVTDKGETEVQPEPDTTVSDKGEPEQVAPLPEYKGNIEQVVKPETPVEKQ
PEKTEEVVPKPTETPVNPNEGTTEGTSIQEAENPVQPAEESTTNSEKVSPTSSKNTGEVSSNPSDSTTSVGESNKPEHNS
KNENSEKTVEEVVPNPNEGTTEGTSIQEAENPVQPAEESTTNSEKVSPTSSKNTGEVSSNPSDSTTSVGESNKPEHNS
GNTTSENGQTEPEPSNGNSTEVSNTSNGNEIKQENELDPDKKVEPEKTELELRNVSDLELYSLNSGTYKQHSLE
VPSNPNSYFVKVSSSFKDVLVVASISEERKNKILYKITAKEVKLQOEISRYKDNFTFYLAQKGTETNTFTSFSNLVKA
INQNPSTGYHLAASLANEVELGPDERSYIKDTFTGRLIGEKGKNYAIYNLKKPLFENLSGATVEKLSLKNVAISGKDDIG
LANEAQNNTKIKQVHVDGVLAGEGIGGLLAKAQSSITESFSGRIINTYETTAAYNIGGMVGHLTGDKALLTKSKATVAIS
SNTNTSDQTVGGLAGLVDRAQIQDSYAEGDINNKHFRVAGVAGNLWDRTSGDVRHAGSLTNVLSDVNVNTNGNAITGYHYN
EMKVKDTFSSKANRVYNVTLVKDEVVSKESFEERGTMLDASQIASKKAEINPLILPTVEPLSTSGKKDSDFSKVAYYQAKRNI
TYKNIEKLLPFYNKATIVKYGNLVNENSLLYQKELLSAVMMKDNQVITDIVSNKQTANKLLHYKDDLSEKLDLKYQNDFAKI
AEYSLGNTGLLYTPNQFLYDQTSIIKQVLPDLQKVDYHSEAIRKTLGISPNVKQTELYLEDQFAKTKQLEDLKLKLSADAG
LASANPVTGGLVLDKIKRKEALLGLTYLERWYNFSYQGVNVKDLVLYHLDFFGKGNASPLDTLIELGKSGFNLLAKNNVI
TYGISLASQHGTTDLFSTLEHYRKVFLPNTSNNDFWFKSETKAYIVEEKSTIEEVKTKQGLAGTKYSIGVYDRTSATWKYRN
VLPPLTLPLERSVVFVISTMSSLGFGAYDRYSSDHKAGKALNDVFEENARETAKRQRDHYDYWYRILDDNAREKLYRNILLYDA
YKFGDDNTVKGATEVADFONPNPAMQHFFGPGVGNKVGHNGHAYATGDVAYVYMGYRMLDKDGAITYTHEMTHDSQDIYLG
GRRSGLGPEFFAKGLLQAPDHPDDATITINSILKHSKSDSTESRRLQVLDPTTRFNADDLQYVHNMFDVVMLEYEGNSI
LKLDTNQKQQLLRKVNTNEYHPDPGKNKYATNVVRNLTVEEVERLSFNDLIDNNILSSREYASGKYERNGYFTIKLFAPIIYA
ALSNDIGTPGDLMGRIAYELLAAGKFGDMVPIYSNQYEEAAKQKGTINLYGKTRGLVTDDLVLKVKVFNQYHTWSEFKKA
MYQERQDQFDRLNKVTFTDTPQWQTFAKKTSSVDELQKLMVAVRKDAEHNYHWNYPNDIDSEVHKLKRAIFKAYLDQI
NDRSSSIFENKK

SeqID 193

MKINKKYLAVSVAVLALSVCSEYELGRYQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGYVTSH
GDHYHYNGKVPYDAIISEELLMKDPNYQLKSDIVNEIKGGYVIKVDGKYYVYLKDAHADNIRTKBEIKRQKQERSHNHNS
RADNAVAAARAQGRYTDDGYIFNASDIIEDTGDAYIVPHGDHYHYIPKNELASSELAAAEAYWNGKQGSRPSSSSSYNANPA
QPRLESENHNLTVPTTYHQNGQENISSLLRELYAKPLSERHVESDGLIFDPAQITSRRTARGVAVPHGNHYHFIPIYEQMSELEK
IARIIPLRYSRSHWVPSRPEEPSPQSTPEPSPSPQAPSNPIDEKLVKEAVRKVGDDGYVFEENGVSRYIPAKDLSAETAAGI

DSKLAQESLSHKLGTKKTDLPSSDREFYNKAYDLLARIHQDILLDNKGRQVDFEALDNLLERLKDVSDDKVLVEDILAFIAFLAF
IRHPERLGKPNQITTYTDDIEIQVAKLAGKYTTEDGYIFDPRDITSDEGDAYVTPHMTSHHWIKKDSLSEAERAAAQAYAKEKG
LTPPSTDHQDSGNTAEKGAEIYNRVKAQKVPPLDRMPYNLQYTVFVKNGLIIPHYDHYHNIKFEWFDEGLYEAPKGYTLEEC
LLATVKYVVEHPNERPHSDNGFGNASDHFVQRNKGQADTNQTEKPSSEKPKQTEKPEEETPRBEKPKQSEKPKSPKPTPEEPEESF
EESSEEPQVETEKVEEKLREAEDLLGKIQDPIIKSNAKETLTGLKNNLLFGTQDNNTIMAEAEKLLALLKESK

SeqID 194

LILSVCSYELGLYQARTVKENNRVSYIDGKQATQKTENLTPDEVSKREGINAEQIVIKITDQGYVTSHGDHYHYNGKVPYDA
IISELLMKDPNPKYKLDIEDIVNEVKGYYIKVDGKYYVYLKDAHADNVRTKEEINRQKQEHSHQREGGTFRNDGAVALARSC
GRYTTDDGYIFNASDIEDTGDAYIVPHGDHYHYIPKNELSASELAAAEAFLSGRGNLSNSRTYRRQNSDNTSRTNWVPSVSN
PGTTNTNTSNNSTNSQASQSNIDSLKQLYKLPLSQRHVESDGLVFDPAQITSRTARGVAVPHGDHYHFIPYSQMSELEER
IARIIPLRYSNHWPDSRPEQSPQPTPEPSPGPQAPNLKIDSNSLVSQLVKRVGEGYVFEKGISRYVFAKDLPSSETVK
NLESKLSKQESVSHTLTAKKENVAPRDQEFYDKAYNLLTEAHKALFENKGRNSDFQALDKLLERLNDESTNKEKLVDDLLAFL
APITHPERLGKPNQIEYTEDEVRIAQLADKYTTSDGYIFDEHDIISDEGDAYVTPHMGHSHWIKDLSLSDKEKVAAQAYTKE
KGILPPSPDADVKANPTGDSAAAIYNRVKGEKRIPLVRLPYMVEHTVEVKNGLIIPKHDHYHNIKFAWFDDHTYKAPNGYTL
EDLFATIKYVVEHPDERPHSNDGWNASEHVLGKKDHSDEPNKFKADEEPVEETPAEPEVPQVETEKVEAQLKEAEVLLAKV
TDSLSKANATETLAGLRNNTLQIMDNNSIMABAEKLLALLKGSNPSSSVSKEKIN

SeqID 195

MPVEIKTTKEIHPKIYAYTTPVTSTNEGWIKIGYTERDVTQRIKEQTHTAHIATDVLWTGDAAYTEEPDKGKTFKDHDFHHFL
SFHDVERRPKTEWFYFNGTPEKSKNLFDKFVQHDLSGYQPGKGQDYTLRQEQEEAVAKTLAYFQEHAGGKFLWNAKPRFGKTL
STYDLARMEAVNVILVITNRPAIANSWYDDFETFIAGQTTYKFVSESDLSKSRPILSRQEFGLILADDVRQLAFISLQDLKGS
VYLGEHDKLKWVTDLHWDLLVIDEAHEGVDTFKTDQAFNKIRNFTLHLSGTSFKALAKGDFTEEQIYNWSYADEQAQKYSW
SLEQEEENPYESLPQLNLFYQMSQMIKEKLEKGAQIDGENIDYVFDLSEFFATDDKGGKFIHEHVDNRWLDLSSNEKYPFST
KELRNLKHTFWLLERVASAKALKALLEEHPIYENYEIVLAAGDGRMSEEDDKVKLKSLLVRKAIAENDKTITLSVGQLTTG
VTIPEWTGVLMLSNLKSALYMQAAAFRAQNPYSWSNDKGNHFRKERAYVDFAPERTLILFDEFANLLLVTAAGRGSATRE
ENIRELLNFFPIIAEDRAGKMVEIDAKAVLTTPRQIKAREVLKRGFMSNLLFDNISGIFQASQTVLDILNELPVEKEGKVQDS
SDLLDFSVDVVDDEGNAVVDHEIVVNMQLFGEKVYGLGESVAELVTKDEERTQKQLVNDLSKTVSSVIVEELKADYSLKTR
ETEQIKKQITATLENEIRKNDIERKISEAHIKQELQQQLKEANDKAQDKIQEDLEKRLKENKLIHKEKLEQTLKKEVEKMP
KFIEQVEIKRVEQLKQSAQDEIRDHLRGFARTIPSFIMAYGDQTLTLDNFDAFVPEHVFEYVETGITIDQFRYLDRGGQDFAGH
LFDKATFDEAIQEFRLKKKELADYFKDQKEDIFYIPPQKTNQIFTPKRVVCRMVDDLEKENPGIFDDPSKTFIDLYMKSGLY
IAELVKRLYNSNGLKEAFPNPPEERLKHILEKQVYGFPAPSEIYNISTNFIIGNLSKDISRKNFVLADTIPAAKEGSIQKLVD
YFENN

SeqID 196

MKKLILVDDEKPISDIIFNMKTKEGYEVVTAFNGREALEQFEAEQPDIIILDLMLPEIDGLEVAKTIRKTSVPIMLLSAKDS
EFDKVIGLELGADDYVTKPFSNRELQARVKALLRRSQMPVDDGQEADSKPQPIQIGDLEIVPDAYVAKKYGEELDLTHREFEL
LYHLASHTGQVITREHLLTETVWGYDYFGDVRTVDVTVRRRLREKIEDTPSRPEYILTRRGVGYMRNNA

SeqID 197

MKKKFLAFLLLIFPIFSLGIAKAETIKIVSDTAYAPFEFKDSQDYTKGIDVDIINKVAEIKGWNIQMSYPGFDAAVNAVQAGQ
ADAIMAGMTKTKEREKVFMTSDTYDTKVVIATTKSHKISKYDQLTGKTVGVKNGTAAQRFLKETIKDKYGFITKTFDGTGLMN
NSLSAGAIADAMDDKPVIEYAINQGQDLHIEMDGEAVGSFAFGVKKGSKEYHLVTEFNQALSEMKKDGSGLDKIICKWTASSSS
AVPTTTTLTAGLKAIPVKAKYIIASDSSFAFPVFQNSSNQYTGIDMELIKALAKDQGFEBITNPGFDAAISAVQAGQADGIIA
GMSVTDARKATFDFSESYYTANTILGVKESNNIASYEDLGKGTGVGVKNGTASQTFLENQSKYGYKIKTFADGSSMYDSLNTG
AIDAVMDDEPVLKYSISQGGKLTPISGTPIGETAFVKKGANPELIEFMNNGLANLKANGFEQKILDKYLASESTASTSTV
DETTLWGLLQNNYKQLLSGLGITLALALISFAIAIVIGIIFGMFSVSPYKSLRVISEIFVDVIRGIPLMILAAFIWGPINFI
ESITQQSPINDFVAGTIALSLNAAAYIAEIVRGGIQAAPVVGQMEASRSLGISYKTMRKIILPQATKMLPNFVNQFVIALK
DTTIVSAIGLVLFQTKIILARNYQSFMYAILAIFYLVIITLLTRLAKRLEKIR

SeqID 198

MAFESLTERLQNVFKNLRKKGKISESDVQEATKEIRLALLEADVALPVVKDFIKKVRERAVGHEVIDTLNPAQQIIKIVDEEL
TAVLGSDTAEIISPKIPTIIMVGLQGAGKTTFAGKLANKLKEENARPLMIAADIYRPAIDQLKTLGQQIDVPVAFALGTE
VPAVEIVRQGLEQAQTNHNDYVLIDTAGRLQIDELLMNELRDVKALAQPNELLVVDAMIGQEAANVAREFNAQLEVTGVILT
KIDGDRGGAALSVRHITGKPIKFTGTGEEKITDIETTFHPRMSSRILGMGDMTLIEKASQYDEQKALEMAEKMENTFDN
DFIDQLDQVQNMGPMDLLKMPGMANNPALQNMKVDERQIARKRAIVSSMTPEERENPDLLNPSRRRRRIAAGSGNTFVEVNK
FIKDFNQAKQLMQGVMSGDMNMMKQMGINPNLPPKNMPNMGGMDMSALEGMMQGGMPDLSALGGAGMPDMSQMFGGGLKKG
IGEFAMKQSMKRMANKMKKAKKKRK

SeqID 199

MSQIWTKEKFISQVQGGVIVSCQALPGEALYNEEFSLMPFMAKAALEAGAVGIRANSVRDIKAIQKVVDLPPIIGIIRDYPPQ
EPYITATMKEVDELVECGTTFVIAFDATLPRYDGLVVEFIKKIKEKYPNQLLMADVSNLDEGLYAFKSGVDFVGTTLSGYTS
TSVQSDPEPDFELMKKLADFNIPVIAEGKIHYPEQLKKAAYSLGVTSVVIGGAITRPKEIAQRFINVIK

SeqID 200

MRYLTAGESHGPRLTAIEGIPAGLPLTAEDINEDLRRRQGGYGRGGRMKIENDQVVFVTSVGRHGKTTGAPITMDVINKDHQK
WLDIMSIEDRLKSKRKITHPRPGHADLVGGIKYRFDDLNSLERSSARETTMRVAVGAVAKRLLAEALDMEIANHVVFVG
KEIDVPENLTVAEIKQRAAQSEVSIVNQEREQEBKDYIDQIKRGGDTIGGVVETVVGVPVGLGSYVQWDRKLDARLAQAVVS

INAFKGVFGLGFEAGYRKGSQVMDEILWSKEDGYTRRTNNLGGFEGGMTNGQPIVVRGVMKPIPTLYKPLMSVDIETHEPYK
ATVERS DPTALPAAGMVMEAVVATVLAQEILEKFSSDNLEELKEAVAKHRDYTKNY

SeqID 201

MVVMNRIRVSKRVEKKLAKGLVLLLEASDLNVNMLKDQEVVQGGEGNFLTAYLSQQNKGLGWFIKDKVAFNQAFFETLFRK
AKEKRNAYYQDDLTAFRLFNQEGDGGGLTVLDLYGDIYAVFSWYNSYVYQIRQTISEAFRQVFPVGLGAYEKIRFKGLDYESA
HVGQAEAPDFFNVLNGLVLYQVFMNDGLMTGIFLDQHEVRGSLVDGLAMGKSLNMFSTAAFSVAAAMGGASHTTSVDLAKR
SRELSQAHFQANGLSTDEHRFIVMDVFYFYAKRKDLTYDVIIVLDPPSFARNKKQTFSSVAKDYHKLISQSLEILNPGGIIIA
STNAANVSRQKFTEQIDKGFAGRSYQILNKYGLPADFAYNKKDESSNYLKVISMKVSK

SeqID 202

MTKTLKRPEVLS PAGTLEKLVAVQYGADAVFIGGQAYGLRSRAGNFTFEQMEEGVQFAAKYGAQVYVAANVMHEGNEAGAG
EWFRLKRDIGIAAIVISDPALIMIAVTEAPGLEIHLSTQASATNYETLEFWKELGLTRVVLAREVSMEEELAEIRKRTDVEIEA
FVHGAMCISYSGRCTLSNHMSMRDANRGCSQSCRWKYDLYDMPFGKERKSLQGEIPEEFSMSAVDMSMIDHIPDMIENGVD
LKIEGRMKS IHVSTVTNICYKAAVDAYLESPEKFEAIKQDLVDEMVKVAQRELATGFYGTSPSENEQLFGARRKIPEYKFVAE
VVSYYDAAQTATIRQRNVINEGDQVEFYGPGRHFETIYIEDLHDAKNKIDRAPNFMELLTIKVPQPVQSGDMVRALKEGLIN
LYKEDGTSVTVRA

SeqID 203

MNTYQLNNGVEIPVLGFGTFKAKDGEEAYRAVLEALKAGYRHIDTAAYIQNEESVQGAIKDSGVPREEMFVTKLWNSQOQTYE
QTRQALEKSIEKLGDLDYLDLYLIHWPNPKPLRENDAWKTRNAEVRAMEDLYQEGKIRAIQVSNFLPHHLDALLETTATIVPAV
NQVRLAPGVYQDQVAVCREKGILLEAWGPFQGGELFDSKQVQEI AANHGSVAQIALAWSLAEGFLPLPKSVTTSRIQANLD
CFGIELSHEERETLKTIAVQSGAPRVDDVDF

SeqID 204

LSEKSREEEKL SFKEQILRDLEKVKGYDEV LKEDAEVVRTPANEPSTEELMADSLSTVEEIMRKAPTVP THPSQGV PASPADE
IQRETPGVSPHSPQDVPSPSPAESGSRPGPGPVRPKKLEREYNETPTRVAVSYTTAEKKAQAGPETPTPATETVDIIRDTSR
RSRREGAKPVKPKKEKKSHVKA FVISFLVFLALLSAGGYFGYQYVLD SLLPIDANSKKYVTVG IPEGSNVQEI GTTLEKAGLV
KHGLIFS FYAKYKNYTD LKAGYYNLQKSMSTEDLLKELQKGGTDEPQEPVLATLTIPEGYTLDQIAQAVGQLQGD FKESLTAE
AFLAKVQDET FISAQAVAKYPTLLES LPKVDSGARYRLEGYLF PATYSIKESTTIESLIDEMLAAMDKNLSPYYSTIKSKNLT
NELLTIASLVEKEGAKTEDRKL IAGVFYNRLNRDMP LQSNIAILYAQGLGQNI SLAEDVAIDTNIDSPYNVYK NVGLMPGPV
DSPSLDAI ESSINQTKSDNLYFVADVTEGKVYYANNQEDHDRNVAEHVNSKLN

SeqID 205

MKQERFPLVSDDEVM LTEMPVMNLYDES DLI SNIKGEYRDKNYLEWAPIAEKPKVPIEKQVEKPKKAPLGVKKEGKSYAEVA
REEARADLKKKRSANYLTQDFSLARRHSQPSLV RQGNQPTAPFQKENPGEFVKYSQKLTQSHYILAEVHSIPTKNEEVSAPA
PKKNYDFLKKSQIYNKSKQTEQERRVAQELNLTRMTE

SeqID 206

MKKS SKYLTLAGLV LGTVLLSACGNSSTASKTYNYVYSSDPSSLNYLAENRAATSDIVANLV DGLLENDQYGNII PSLAED
WTVSQDGLTYTYKLRKDAKWF TSEGEYAPVTAQDFVTGLQYAADKKSEALYLVQDSVAGLDDYITGKTSDFSTVGKALDDQ
TVQYTLVKPELYWNSKTLATILFPVNADFLKSKGDDFGKADPSSILYNGPFLMKALVSKSAIEYKKNPNYWDKNVFDVVKL
TYYDGSQDES LERNFTAGAYTTARLF PNSSSYEGIKEKYKNNI IYSMQNSTSYFFNFNLDRKSYNYTSKTS DIEKKSTQEA
NKNFRQAINFAFDRTSYGAQSEGEGATKILRNLVVPNPFVS IKGKDFGEV VASKMVNYGKEWQGINFADGQDPYYPNPEKAKA
KFAEAKKELEAKGVQFPPIHLDKTVEVTDKVG IQGVSSIKQSIESVLGSDNVVIDIQQLTSDEFDSSGYFAQTAQKDYDLYHG
GWGPDYQDPSTYLDIFNTNSGGFLQNLGLEPGEANDKAKAVGLDVYTQMLEEANKQDPAKRYEKYADIQAWLIDSSSLVLP
SRGGTPSLRRTVPFAAAYGLTGTKGVESYKYLKVQDKIVTTDEYAKAREKWLKEKEESNKKAEELAKHVK

SeqID 207

VEQHS DVCYIFYRRERLKT KIGLASICLLGLATSHVAANETEVAKTSQDTT TASSSSEQNQSSNKTQTSAEVQTNAAAHWDGD
YYVKDDGSKAQSEWIFDNYKAWFYINS DGRYSQNEWHGNYLKS GGYMAQNEWIYDSNYKSWFYLKSDGAYAHQEWQLIGNK
WYFYFKKGWYMAKSQWQGSYFLNGQGAMQNEWLYDPAYSAYFY LKSDGTYANQEWQKVGGKWYFYFKKGWYMARNEWQGNYYLT
GSGAMATDEVIMDGTRYIFAASGELKEKKDLNVGWVHRD GKRYFFNNREEQVGT EHAKKVIDISEHNGRINDWKKVIDENEVD
GVIVRLGYSGKEDKELAHNIKELNRLGIPYGVLYTYAENETDAESDAKQTIELIKKYNMNL SYPIYDVENWYVYVNSKRAP
SDTGTWVKIINKYMDTMKQAGYQNVVYSYRSLQLTR LKHPDILKHVNWVAAYTNALEWENPHYS GKKGWQYTSSEYMKGIQG
RVDVSVWY

SeqID 208

MAKEPWQEDIYDQEESRAERRHRNHGGADRMANRIL TILASIFFVIVVMVIVLIYLSGGG SNRTAALKGFHSDASV VQISS
SSSSQPEQSSEPESTSSSSSEEAANPEGTIKVLAGEGEAAIAARAGISIAQLEALNPGHMATGSWFANPGDVIKIK

SeqID 209

MPITSLEIKDKTFGRFRGDFDPEEVDEF LDI VVRDYEDLV RANHDKNLRIKSLEERLSYFDEIKDSL SSVLIAQDTAERVKO
AAHERSNNIHQAEQDAQRLLLEEAKYKANEILRQATD NAKKVA VETEELKNKSRV FHQRLKSTIESQLAIVESSDWEDILRPT
ATYLQTSDEAFKEVVSEVLGEPIPAPIEEEPIDMTRQFSQAE MAELQARIEVADKELSEFEAQIKQEV EAPTVPVSPQVEEEP
LLIQLAQCMKNQK

SeqID 210

MSLKDRFDRFIDYFTEDESSSLPYEKREDEPVFTSVNSSQEPALPMNQPSQSAGTKENNIIRLHARQQBELANQSQRATDKVIID
VRYPRKYEDATEIIVDLLAGNESILIDFYMTVEVQARRCLDYLDGACHVLAGNLKKVASTMYLLTPVNVIVNVEDIRLPDEDDQQ
GEFGFDMKRNVR

SeqID 211

MSDLKKYEGVIPAIFYACYDDQGEVSPERTRALVQYFIDKGVQGLYVNGSSGECIYQSVEDRKLILEEVMAVAKGKLTIIAHVA
CNNTKDSMELARHAESLGVDAIATIPPIYFRLPEYSVAKYWNDISSAAPNTDYVIYNIPLAGVALTPSLYTEMLKNPRVIGV
KNSSMPVQDIQTFVSLGGEDHIVFNGPDEQFLGGRLMGARAGIGGTYGAMPELFLKLNQLIADKDLTARELQYAINAIIIGKL
TSAHGNMYGVIKEVLKINEGLNIGSVRSLPTPVTEEDRPVVEAAAALIRETKERFL

SeqID 212

MNKRGLYSKLGISVVGISLLMGVPTLIHANELNYGQLSISPIFQGGSYQLNNKSIDISSLLLDKLSGESQTVVMKFKADKPN
LQALFGLSNSKAGFKNNYFSIFMRDSGEIGVEIRDAQKGINYLFSRPASLWKGKHGQAVENTLVFVSDSKDKTYTMYVNGIEV
FSETVDTFLPISNINGIDKATLGAVNREGKEHYLAGKSIDIEISLFNKAISDQEVSTIPLSNPFQLIQSGDSTQANYFRIPTL
YTLSSGRVLSSIDARYGGTHDSKSKINIATSYSDDNKGTWSEPIFAMKFNDYEEQLVYWPDRNKLKNSQISGSASFIDSSIVE
DKKSGKTIILADVMPAGIGNNNANKADSGFKEINGHYLKLKNGDNDFRYTVRENGVVYNETTNKPTNYTINDKYEVLEGGK
SLTVEQYSVDFDSGLRERHNGKQVPMNVFYKDSLKFVTPNTYIAMTTSQNRGESWEQFKLLPPFLGEXHNGTYLCPGQGLAL
KSSNRLIFATYTSSELTYLISDDSGQTKKSSASIPFKNATAEAQMVELRDGVIRTFRTTTGKIAYMTSRDSGETWSKVS
YI DGIIQTSYGTQVSAIKYSQLIDGKEAVILSTPNSRSGRKGGLVVLVKNKEDDSIDWKYHYDIDLPSYGYAYSATITELPNHHI
GVLFEKYDSWSRNLHLSNVVQYIDLEINDLTK

SeqID 213

MNRSVQERKCRYRIRKLSVGAVSMIVGAVVFGTSPVLAQEGASEQPLANETQLSGESSTLTDTSEKSPSSSETELSGNKQEQER
KDKQEEKIPRDYYARDLENVETVIEKEDVETNASNGQRVDLSSELDKLKLLENATVHMEFKPDAKAPAFYNLFVSSATKKDE
YFTMAVYNNATLEGRGSDGKQFYNNYNDAPLKVKGQWNSVTFTVEKPTAELPKGRVRLYVNGVLSRTSLRSGNFIDKMPDV
THVQIGATKRANNTVWGSNLQIRNLTVYNRALTPPEVQKRSQLFKRSDLKLEKLPAGAALTEKTDIFESGRNGNPNKDGIKSYR
IPALLKTDKGTIAGADERRLHSSDWGDIGMVIIRSEDNGKTWGDVTTITNLRDNPKASDPSIGSPVNDMLVQDPETKRIF
SIYDMFPEGKGIIFGMSSQKEEAYKKIDGKTYQILYREGEKGAITYRENGTVYTPDGKATDYRVVVDVVKPAYSDKGDLYKGDQ
LLGNIYFTTNKTSFPIAKDSYLWMSYSDDDGKTWSAPQDITPMVKADWMKFLGVGPGTGIVLRNGPHKGRILIPVYTTNNVS
HLDGSQSSRVYISDDHGKTWHAGEAVNDNRQVDGQKIHSSTMNRRANQNTSTVVLNNGDVKLFMRGLTGDLQVATSKDGGV
TWEKDIKRYPVQKDVVYQMSAIHTMHEGKEYIILSNAGGPKRENGMVHLARVEENGELTWLKHNP IQKGEFAYNSLQELNGE
YGILYEHEKQONAYTSLFRKFNWEFLSKNLISPTANRDGQRRDQGRSYWLGVLRLSIGQQGSNPSIGKWNDSDFNPVQDLV
VCSRGYRTGNWYSRKHRYASSCKSSRCSSWSRSKWQSSGASSRIYRGSWYRASCSNRRVGIFACNSYKKRLYLQSSSCS
AGTSNRKQGEPPSFTRTNSFLPWSVYAREKERT

SeqID 214

MIQIGKIFAGRYRIVKQIGRGMADVYLAKDLILDGEEVAVKVLRTNYQTDPIAVARFQREARAMADLDHPHIVRITDIGEED
GQQLAMEYVAGLDLKRYIKEHYPLSNEEAVRIMGQILLAMRLAHTRGIVHRDLKPQNILLTPDGTAKVTDGFIJAVAFETSL
TQTNMSLGSVHYLSPEQARGSKATVQSDIYAMGIIFYEMLTGHIYPDGDASVTIALQHFKPLPSVIAENPSVPQALENVIIK
ATAKLTNRYSRVSEMYVDLSSSLSYNRRNESKLIFDETSKADTKTLPKVQSSTLTSIPKVQAQTEHKSINKNPSQAVTEETYQ
PQAPKKHRFKMRYLILLASLVLAASLIWLSRTPATIAIPDVAGQTVAAEAKATLKKANFEIGEEKTEASEKVEEGRIIRTD
GAGTGRKEGTKINLVSSGKQSFQISNYVGRKSSDVIAELKEKKVPDNLIKIEEEESNESEAGTVLKQSLPEGTTYDLSKATQ
IYLVAKKATTIQLGNYIGRNSTEVISELKQKKVPENLIKIEEEESSESEPGTIMKQSPGAGTTYDVSKPTQIVLTVAKKVTS
VAMPSYIGSSLEFTKNLIIQIVGIKEANIEVVEVTTAPAGSAEGMVVEQSPRAGEKVDLNKTRVKISIIYKPKTTSATP

SeqID 215

MTKLIFMGTPDFSATVLKGLLTDDRYEILAVVTQPDRAVGRKKVQIETPVKQAAKEAGLSIYQPEKLSGSPEMEDLMKL GADG
IVTAAFGQLFLPSKLLDSMDFAVNVHASLLPRHRGGAPIHYALIQGDEEAGVTIMEMVKEMDAGDMISRRSIPITDEDNVGTLF
EKLALVGRDLLDPTLPAYIAGDIKPEPQDTSQVTFSPNIKPEEEKLDWNKTNRQLFNQIRGMNPPVPAHTFLKGRDFKIYEAL
PVEGQGNPGEILSIGKKELIVATAEGALSLKQVQPAKPKMDIASFLNGVGRTLTVGERFGD

SeqID 216

VFRRLGQDFQLRKVKKILKQINALKGKMSLSQELVAKTVEFRQLRSEGESLDDILVEAFVVRREADKRILGMFPYDVQVMG
AIVMHYGNVAEMNTGEGKTLTATMPVYLNFAFSGEGVMVTPNEYLSKRDAEEMGQVYRFLGLTIGVPTFDPKKEMKAEKKL
IYASDIIYTTNSNLGFDYLDNLDASNEEGKFLRPFNYVIDEIDDILLDSAQTPLI IAGSPRVQSNYYAIIDTLVTTLVEGED
YIFKEEKEEVWLTKGAKSAENFLGIDNLYKEEHASFAHRLVYAIRAHKLFKDKDYIIRGNEMVLVDKGTGRLMEMTKLQGG
LHQAI EAKEHVKLSPETRAMASITYQSLFKMFNKISGMTGTGKVAEKEFIETYNMSVVRIPTNRPRQRIDYDPNLYITLPEKV
YASLEYIKQYHAKGNPLL VFGSVEMSQLYSSLLFREGIAHNVLNANNAAREAQISESGQMGAVTVATSMAGRGTDIKLGKG
VAELGGLIVIGTERMESQRIDLQIRGRSGRQDPMGSKFFVSLEDDVIKKFGPSWVHKYKDYQVQDMTQPEVLKGRKYRKL
EKAQHASDSAGRSARRQTL EYAESMNIQRDIVYKERNRDIQSRDLEDVVVDI IERYTEEVAADHYASRELLFHFI VTNISFH
VKEVPDYIDVTDKTA VRSFMKQVIDKELSEKKELLNQHDLYEQFLRLSLLKAIDDNWVEQVDYLQQLSMAIGGQSASQKNPIV
EYYQEAYAGFEAMKEQIHADMVRNLLMGLVEVTPKGEIVTHFP

SeqID 217

MTETVEDKVSHSITGLDILKGIVAAGAVISGT VATQTKVFTNESAVLEKTVEKTDALATNDTVVLGTISTNSASSTLSASE
SASTSASESASTSASTSASTSASESASTSASTSISASSTVVGSTAAATEATAKKVEEDRKKPASDYVASVTNVNLQSYAKRR
KRSVDSIEQLLASIKNAAVFSGNTIVNGAPAINASLNI AKSETKVYTGEGVDSVYRVPIYYKLKVTNDGSKLTFTYTVTVNP
KTNDLGNISSMRPGYSIYNSGTSTQMTLTLGSDLGKPSGVKNYITDKNGRQVLSYNTSTMTTQSGSYTWNGAQMNGFAKKG

SeqID 220

MKKNRVFATAGLVLLAAGVLAACSSSSKSSDSSAPKAYGYVYTADPETLDYLISKNSTTVVTSNGIDGLFTNDNYGNLAPAVA
EDWEVSKDGLTYTYKIRKGVKWFSTSDGEEYAEVTAKDFVNGLKHAADKKSEAMYLENSVKGLADYLSGTSTDFSTVGKAVD
DYTLQYTLNQPEPFWNSKLTYSIFWPLNEEFETSKGSDFAKPTDPTSLLYNGPFLLKGLTAKSSVEFVKNEQYWDKENVHLD
INLAYYDGSQDESLEARNFTSGAYSARLYPTSSNYSKVAEEYKDNIIYTTQSGSGIAGLVNIDRQSYNYTSKTTDSEKVAATK
ALLNKDFRQALNFALDRSAYSQAINGKDGAAALAVRNLFVKPDPFVSAGEKTFGDLVAAQLPAYGDEWKGVNLADGQDGLFNADK
AKAEFAKAKKALEADGVQFPPIHLDPVVDQASKNYISRIQSFQSVETVLGVENVVVDIQQMTSDEFNLITYYAANASSEDWDV
SGGVSWGPDYQDPSTYLDILKTTSSSETTKTYLGFDPNPNPSVQVGLKEYDKLVDEAARETSDLNVRYEKYAAAQAWLTDS
FIPAMASSGAAPVLSRIVPFTGASAQTSKSGSDVYFKYLSQDKVVTKEEYKAREKWLKEKAESNEKAQKELASHVK

SeqID 221

MEINVSKLRDLPQGVQPYRQVHAHSTGNPHSTVQNEADYHWRKDPGLGFFSHIVGNGCIMQVGPVDNGAWDVGGGWNAAET
AAVELIESHSTKEEFMTDYRLYIELLRNLADEAGLPKTLDTGSLAGIKTHEYCTNNQPNHSDHVPDPPYLAKWGISREQFKH
DIENGLTIETGWQKNDTGYWYVHSDGSYPKDKFEKINGTWYFDSGYMLADRWRKHTDGNWYWFDSNGEMATGWKKIADKWY
YFNEEGAMKTGWVKYKDTWYYLDAKEGAMVSNAFIQSADGTGWYLLKPDGTLADKPEFTVEPDGLITVK

SeqID 222

MKKKYWTLAILFFCLFNNSVTAQEI PKNLDGNITHTQTSESFSSEDEKQVDYSNKNQEEVDQNKFRIDKTELFTVTTDKHLE
KNCKCLELEPQINNDIVNSENNLLGEDNLDNKIKENVSHLDNRGGNIEHDKDNLESSIVRKYEWDIDKVTGGGESYKLYSKS
NSKVSIALDSDGVLDQNTGLLKNLSNHSKNYVPNKGYLKEEGEGEIIISDIQDRLGHGTAVVAQIVGDDNINGVNPVHNIN
RIFGKSSASPDWIVKAI FDAVDDGNDI INLSTGQYLMIDGEYEDGTNDFETFLKYKKAIDYANQKGVIIAALGNDSLNVS
SDLLKLISRRKKVRKPLVVDVPSYFSSTISVGGIDRLGNLSDFSNKGDSDAIYAPAGSTLSLSELGLNNFINAEKYKEDWIF
SATLGGYTYLYGNSFAAPKVSGALAMIDKYKLKDQPYNYMFVKKFWKKHYQ

SeqID 223

MKKDELFEFGFYLIKSAADLRQTRAGKNYLAFTFQDDSGEIDGLWDAQPHNIEAFTAGKVVMKGRREVYNNTPOVNQITLRLP
QAGEPNPDAFVKVSPVDVKEIRDYMSQMI FKIENPVWQRIVRNLYTKYDKEFYSYPAAKTNHHAFETGLAYHTATMVR
LADAISEVYPQLNKSLLYAGIMLHDLAKVIELTGPDQTEYTVRGNNLGHIALIDSEITKTVMELGIDDTKEEVLLRHVILSHHGL
EYGSFVRPRIMEAEIIHMIDNLDASMMMTALALVDKGEMTNKIFAMDNRSFYKPDLD

SeqID 224

VTILGKDTVQQSAGGESVTQEATPEYKLENTPGGDKGGNTGSSDANANEGGGSQAGGSAAHTGSQNSAQSQASKQ
LATEKESAKNAIEKAAKDQDEIKGAPLSDKEKAEELLARVEAEKQAALKEIENAKTMEDVKEAETIGVQAIAMVTV
PKRPVAPNAAPKTTSPAQATAGTMQDVITYQSPAGKQLPNTGSASSAALASGLLVATSGFALLGRKTRRRK

SeqID 225

MNADDTVTIYDVAREAGVSMATVSRVVNGNKNVKENTRKKVLEVIDRLDYRPNNAVARGLASKKTTTVGVV
IPNITNGYFSSIAKGIDDIAEMYKYNIVLANSDEDENEKEVSVVNTLFSKQVDGIIYMGYHLTDKIRSEFSR
SRTPIVLAGTVDVHQLPSVNIDYKQATIDAVSYLAKENERIAFVSGPLVDDINGKVRLVG
YKETLKKAGITYSEGLVFESKYSYDDGYALAERLISSNATAAVVTGD
ELAAGVLNGLADKGVSPEDFEIITSDDSQISRFTRPNLTTIAQPLYDLGAI
SMRMLTKIMHKEELEEREVLLPHGLTERSSTRKRK

SeqID 226

MKKKLVPFNLFWWGAASSGPQTEGQYGVHENVMDYWFKTHPEDFFDNVGPLVASNFFHTYTEDFHL
MKEIGVNSFRTSIQWSRLIKNLETGEPPDKGIAFYNAIEEAKKNQMDLVMNLH
HFDLPVELLQKYGGWESKHVVELFVKFAKTAFTCFGDKVHYWTF
NEPMVIEAGYLYAFHYPNLKGKGKEAVQVIYNLNLASAKVIQLYRSLELDGKIGIILNLT
PAYPRSNSPEDLEASRFTDDFFNKVFLNPAVKGTFFPERLVKQLERDGVLSHTE
KELQLMKSNVTDFLGVNYHPRVQAQANPEEYQTPWMPDQYFKEYEWLER
RMNPYRGWEIFPKAIYDIAMIVKEEYGNIPWFISENGMGVENEARFIDENGVIDDVYRI
EFYEEHLRWLHKAIEEGSHCFGYHAWTAFDCWSWNNAYKNRYGFI
SVDLETQKRTIKSSGRWYRKVSDNNGFEVEIEE

SeqID 227

VENLTFYKRYVYLTRPRLELLAVVTIVFCVAVLVFFLNIPGKGVKLNDNGTIVYDGS
LVRGKMNGQGTITFQNGDQYTGGFNNGAFNGKGTFSKEGWTYEGDFVNGQAE
GKGLTTEQEVVYEGTFKQGVFQQK

SeqID 228

MLNKIRDYLDFAGLQYRNPDKAGAEREKMLAFRHKQGEARKVFT
ELAKAFQASHPEWQLQOTSQWMNQAQRLRPHFWVYLQ
RDGQVTEPMMALRLYGTSTDFGISLEVSFIERKKDEQTLGKQAKVLDIPTVKG
IYYLTSNGQSQRWEANEKRRRTLREKVR
SQEVRKVLVKVDVPMTESSBBEIVEGLLKSYSKILPYLATRK

SeqID 229

MVQNSCWQSKSHKVKAFITLLESLLALIVISGGLLLFQAMSQ
LLISEVRYQQQSEQKEWLLFVDQLEVELDRSQFEKVEGNRLY
MKQDGKDIAIGKSKSDDFRKTNARGRGYQPMVYGLKSVRIT
EDNQLVRFHFQFQGLEREFIYRVEKEKS

SeqID 230

MKKMMTFLKKAKVKAFITLVEMLVLLIIISVLFLFV
PNLTKQKEAVNDKGKAAVVKVVSQAELYSLEKNEDASLRKLQADGR
ITEEQAKAYKEYNDKNGGANRKVND

SeqID 231

MTSKVRKAVIPAAGLGRFLPATKALAKEMPLIVDKPTIQFIVEEALKSGIEDILVVTGKSKRSIEDHFDNSNFELEYNLKEKG
KTDLLKLVDKTTDMRLHFIRQTHPRGLGDAVLQAKAFVGNPEFVVMGLGDDLMIDITDEKAVPLTKQLMDDYERTHASTIAVMPV
PHDEVSAYGVIAPQGEKDGLYSVETFEVKPAPEDAPSDLAIGRILLTPBIFILEKQAPGAGNEIQLTDAIDTLNKTQRVF
AREFGARYDVGDKFGFMKTSIDYALKHPQVKDDLKNYLIQLGKELTEKE

SeqID 232

MQNQLNELKRKMLEFFQKQKNKKSARPGKKGSSTKKSSTLDKSVIFPAILLSIKALFNLLFVLGFLGGLGAGIALGYGVAI
FDKVRVPQTEELVNQVKDISSISEITYSDGTVIASIESDLLRTSISSEQISENLKKAIATEDEHFKEHKGVPKAVIRATLG
KFVGLGSSSGSTLTQQLIKQQVVGDAPTLARKAAEIVDALALERAMNKDEILTTYLNVAFPGRNNKGQNIAGARQAABEGIFC
VDASQLTVPQAAFLAGLPQSPITYSPYENTGELKSDLEIGLRRRAKAVLYSMYRTGALSKEYSQYKDYDLKQDFLPSGTVI
GISRDYLYFTTLAEAQERMYDYLAQRDNVSAKELKNEATQKFYRDLAAKEIENGGYKITTTIDQKIHSAMQSAVADYGYLLDI
GTGRVEVGNVMDNQTGAILGFVGGGRNYQENQNNHAFDTRKSPASTTKPLLAYGIAIDQGLMGSETILSNYPTNFANGNPIMY
ANSKGTGMMTLGEALNYSWNIPAYWYTYRMLREKGVVDVKGYMEKMGYIEIPEYGIESLPMGGGIEVTVQHTNGYQTLANNGVYE
QKHVISKIEAADGRVVYEQDKPVQVYSKATATIMQGLLREVLSSRVTTTFKSNLTSNLPTLANADWIGKTGTNTQDENMWLM
LSTPRLTLGGWIGHDDNHSLSRRAGYSNNSNYMAHLVNAIQASPSIWGNERFALDPSVVKSEVLKSTGQKPEKVSVEGKEVE
VTGSTVTSYWANKSGAPATSYRFAIGGSDADYQNAWSSIVGSLPTPSSSSSSSSSSSSSSSSSSSTTRPSSSRARR

SeqID 233

MSSKFMKSAAVLGTATLASLLLVACGSKTADKPADSGSSEVKELTVYVDEGYKSYIEEVAKAYEKEAGVKVTLKTGDALGGLI
KLSLDNQSGNVDPVMMAPYDRVGLSDGQSEVKLSGDAKTDDTTKSLVTAANGKVYGAFAVIESLVMYNNKDLVKDAPKTE
ADLENLAKDSKYAFAGEDGKTTAFLADWTNFYTYGLLAGNGAYVFGQNGKDAKDIGLANDGSIVGINYAKSWYKWPQGMQI
TEGAGNLIQTQFQEGKTAALIDGPWKAQAFKDAKVNYGVATIPPLNGKEYAFAFGGKAWVIPAQAVNLEASQKFDVDFLVATE
QQKVLYDKTNEIPANTEARSYAEGKNDELTTAVIKQFKNTQPLPNISQMSAVWDPAKNMLFDAVSGQKDAKTAANDAVTLIKE
TIKQKFGE

SeqID 234

MIDKVVNRNLLTFFFCMTKIIIFLTTILVKKKKICYNEFKLRNRKQKGVIMWVLGFILFMIFYSNNSKKIKKLENKIKRLI
RKEKGNAEMSRLQEMIGKEPIITGVYIGPDNWEVVDVDEEWVLLRRVDNTGKEKFKLQRIEDIQTVEFDGE

SeqID 235

MILSKNREDGLRKFAFNIRLNTLRLTNHLGFGHYGGSLSIVEVLAVLYGEIMPMTPEIFAARDRDYFILSKGHGGPALYSTLY
LNGFFDKEFLYSLNTNGTKLPSPHPRNLTGIDMTTGSLSGQGISVATGLAYGQRIKSPFYTYAIVGDGELNEGQCWEAIQFI
SHQQLSNLIVFDDNKKQLDGFTKDICNPGDFVEKFSAFGFESIRVKGSDIREIYEGIVQLKQSNSSPKCIVLDTIKGQGV
ELEEMKSNHHLRPTVEEKQMLTTSVVERLSQELEETE

SeqID 236

MKKTILSLTTAAVILAAAYVPNEPILADTPSSEVIKETKVGSIQONNIKYKVLTVEGNIGTVQVGNVTPVEFEAGQDGKPI
TIPTKITVGDKVFTVTEVASQAFSYPDETGRIVYYPSSITIPSSIKKIQKKGPHGSKAKTIIIFDKGSQLEKIEDRAFDSEI
EEIELPASLEYIGTSAFSFSQKLKLTSSSSKLELISHEAFANLSNLEKLTLPKSVKTLGSLNLFRLTTLKHVDVEEGNESI
ASVDGVLFSKDKTQLIYYPSSQKNDES YKTPKETELASYSFNKNSYLKKLELNEGLEKIGTFAFADAIKLEEISLPSNLETII
RLAFYGNLELKLILPDNVKNFGKHVMNGLPKLKSLTIGNNINSLPSFFLSGVLDSLKEIHIKNKSTEFVSKDTPFAIPETVI
FYVTSEHIKDVLKSNLSTSNDIIVEKVDNIKQETDVAKPKKNSNQGVVGVKDKGLWYYLNEGSGMATGWVKDKGLWYYLNE
GSMATGWVKDKGLWYYLNEGSGMATGWVKDKGLWYYLNEGSGMATGWVKDKGLWYYLNEGSGMATGWVKDKGLWYYLNEGSG
ATGWVTVSGKYYTYNSGDLVNTTTPDGYRVNANGEWVG

SeqID 237

MVRFTGLSLKQTQAEIVLKGHISLPDVEVAVTQSDQASISIEGEGHYQLTYRKPHQLYRALSLLVTVLAEADKVEIEEQAAJ
EDLAYMVDCSRNAVNLVASAKQMIETLALMGYSTFELYMEDTYQIEGQPYFGYFRGAYSAAELQEIEAYAQQDFVTFVPCIQT
LAHLSAFVKWGVKEVQELRDVEDILLIGEEKVYDLIDGMFATLSKLKTRKVNIGMDEAHLVGLGRYLILNGVVDRLMLCQHI
ERVLDIADKYGFHCQWSDMFFKLMSADGQYDRDVEIPEETRVLDRDKDRVTLVYWDYYQDSEEKYNRNRNHHKISHDLAI
AGGAWKWIGFTPHNHFSRLVAIEANKACRANQIKEVITGVGDNGGETAQFSILPSLQIWAELSRYNDLDGLSAHFKTNTGLJ
VEDFMQIDLANLLPDLPGNLSGINPNRYVYQDILCPILDQHMTPEQDKPHFAQAAETLANIKEKAGNYAYLFETQAQLNAII
SSKVDVGRIRIRQAYQADDKESLQQIARQELPELRSQIEDFHALFSHQWLKENKVFLDVTVDIRMGGLLQRIKRAESRIEVLJ
QLDRIDELEVEILPFTDFYADKDFEAATTANQWHTIATASTIYTT

SeqID 238

MSNSFVKLLVSQLFANLADIFFRVTIIANIYIISKSVIATSLVPILIGISSFVASLLVPLVTKRLALNRVLSLSQFGKTILLJ
ILVGMFTVMQSVAPLVTYLFVVAISILDGFAAPVSYAIVPRYATDLGKANSALSMTEAVQLIGWGLGGLLFATIGLLPTTCJ
NLVLYIISFLLMLFLPNAEVEVLESETNLEILLKGWKLVARNPRLRFVSANLLEIFSNITIWVSSIILVFTVTELLNKTESYWC
YSNTAYSIGIIISGLIAFRLSEKFLAAKWEPQLFTPNLKTIQNPCLSLDPGWFLFSPNGCFLLDKKEFFLYGISVEKNTRKRI
THMNSLPNHHFQNKSFYQLSFDGGHLTOYGGLIFFQELFSQLKLKERISKYLVNTDQRRYCRYSDSDILVQFLFQLLTGYGTI
YACKELSADAYFPKLLLEGGQLASQPTLSRFLSRDEETVHSLRCLNLELVEFFLQFHQLNQLIVDIDSTHTTYGKQEVYAT
AHYRAHYHPLYAFEGKTGYCFNAQLRPGNRYCSEADSFITPVLERFNQLFRMDSGFATPKLYDLIEKTQGYLYIKLKNJ
VLSRLGDLSLPCPDQEDLTILPHSAYSETLYQAGSWSHKRRVCQFSERKEGNLFYDVISLVNTMTSGTSQDQFQLYRGRGQAI
NFIKEMKEGFFGDKTDSSTLIKNEVRMMMSCIAYNLVFLKHLAGGDFQTLTIKRFRHLFLHVVGKCVRTGRKQLLLSSLYI
YSELFSAIYSRIRKVNLLNPVPYEPERRKASLMMH

SeqID 239

SeqID 240

SeqID 241

SeqID 242

SeqID 243

SeqID 244

SeqID 245

SeqID 246

SeqID 247

SeqID 248

SeqID 249

SeqID 250

SeqID 251

RNCLSTWKSSSNYHTEIKRGTVRQCLGKGRFKEVYSADYAQQSYENNRKRSVKKSSSLTKELKEKILHYHNQKFSPEMMVMAK
 VNVGISTIIYYWIHHGKLGLSKQDLLYPRKGKALKKQASTNFKPAGQSIEQRPEAINLRLENGHYEIDTVLLTRSKNYCLIVL
 DRKSRHQIIRLIPNKSAEVLVQALKLILKQHKILSITADNGTEFNRLFDIFSEEHIIYAAHPYASWERGTNENHNRLIRR

SeqID 252

PVMTISSPTMKNMDLSTKASPSQPLQGKHGMIWSGK

SeqID 253

TSSIRIHRKSSPNWTTTPHLALSAETN

SeqID 254

YFLPHKYARESLSLPSTNKILHRKQGS

SeqID 255

AAFKKDQINERVEKLGKLPITINYNGKSEVIDSKEKLQELMNKAVKDEVAQI

SeqID 256

AYAHSKRSAGSGRAGGRQCLCQCQNKCRDFKY

SeqID 257

HGRPYHKPHQPHHHGFPQQSYNLLPPKHKPTLCVRR

SeqID 258

KGKILLPLRLTTQRWQRKIRPDSRKSANNKANLDFHNSRCKSSLSDEAPNLHKNPALLVHSLSRVIAVLLELSPLQAYSIVKE
SPKEDDLIHDDAILVRFGILEVHDSPLYELLLYHTHSYRFSCSIYLS

SeqID 259

FTVSHVFLLYLSFNPRPKSMSLSFTSSKLLRPRFRFTFIISADFSVKSTVLIPARFKQLYERTDKSSSSIVRSKIRSSDSV
ASFITSVDLAISVRFVNKSRCSVKIRAESPKASSGIIVPFVKISRVNLSKPSLLPTRAGST

SeqID 260

LVCMKNGKCYKERNNCCH

SeqID 261

FHYLSKYFLVSAITTGDKTKRAIKFGRAIKALTISAIITQISNSINPPNKTMTSTKTTR

SeqID 262

GKKVFIKYPLSRVSSKTGPMITGRTKDKIVDKKVGCPFEKSTVKYSS

SeqID 263

SSPVFPKLVMSGANKPRERRNFPFSSKMSFHLTFVL

SeqID 264

YLTSFSVPKIASKVKLTRYWRSSPWGAFGLREBPPPPKKLEKISSKPPKPPAPLKPPKPPAPPKPLAPAAPYWS

SeqID 265

QSWRPPIPDSCYTOEKLTIPIKRRKDIKDFYHNSIQRHKNSHKSHLLDSYRLIITRLAEIVHENKILIVLILYVTNIPSRRI
YEVNRV

SeqID 266

LFRFYRVIVLYRGWHIYLLILVNLQYVQNVFRKDRFLVRGAQPFFHGERSAGHLVLPYVL

SeqID 267

ITHPPLNPEHFVSRVFSSSLGLKSYQPKDDRFLRKPSDSRHPESGNSGKWQVLNSPLVIVK

SeqID 268

TLAKAVGLMYSPPIPPKPFLGRITTDSSSI

SeqID 269

PGSPFSEISGAGFFGVAKRIFPRPPRPWPATINSCPCSIKSVKTLPVASARTVPCGTRTLRSSAPRPCIPLVIPFSPESAL

SeqID 270

INSLTLATSLSKRRAPRKASKASPRMVSRLRPPDFSSPLPNLINWSNWQSRAPAKLSSRTIIARSFDRSPSGFLGYFLYRY
EINNCRTASPKNSKRSLCEIFKRRCSLA

SeqID 271

PIGKRNCKAECQSHHLEKQKTFQSRKTKRYGASPEPRYRESRKPRLSQ

SeqID 272

QPLGHSKAEHEHETICSHTFDNHTTETIPNQVKGRDMTSSETLPFPKSNQNGKAKQIP

SeqID 273

PCSLPDYGLVGSYHSCHYQSNDRFLSHGNWRTLLYSWSWILCQEXTLFPDHLASLYPSCVRTSIHRYCLLHVKKLRNSIS
TFFFTHDKVLVQAHIISQFWMKRTYQHIFFLGCNNLIVHCC

SeqID 274

RVKDNHLDKLVKALLKRRSSTQYYIHQLLRKMIRLYGHQQLHNNSEILVYSDYGHVDLLLLLETNKIPVY

SeqID 275

QVIKIDIATTNKTESVKSQSEREKKRLTSSNILKVRGRPI

SeqID 276

AFKSSKVPSLDPSSSTKTYSISVSKSGSKASRA

SeqID 277

DKTDPLARKLPDKSKPSTSFTCKSLSPVNMASLTSAPKSKTKASLGICSPADKRMTSPSTNSSGLRATS

SeqID 278

LCRLQTQARPRGSVTNLTKQNKVYRYLNYLRQTQLSAM

SeqID 279

CIQSIGNEGQCKGNSCYVGKEIHLAPISDIVGHKGKEEGDDGNDGRQFYFLAHLVGSFAFLRSFPLLYSKGINEEGDGIGND
GRLISKDIINSTGQNGINNTKVISPFA

SeqID 280

TSTKLVIDTTTTFTFCTNNKSSKFTNTFTKLDVGTTRHVGCDGNGTTLTSIHDDLGFSSIVVFGIQDFVRNTSCNQFLRNVV
TSFNRYCTNQDRLTLLVTSLNVDNRFKLRFDTCIKKV

SeqID 281

ISTGVPTCSMYPLLKTAILSDKVKASS

SeqID 282

LSTMSSIKSILCSLPHTTIFSKSAISPKRGSTAI

SeqID 283

SCSYSSNSTSKACSIVGLSKPTTIFCVTPISAAKAISSASRPANSSTFKCVCVSKIISSNLVFYLLLYQKRGGAPNFSVSPPLF
NRELFICYLPILPISYSTVRDRDLH

SeqID 284

VTSCIVPAVACGALVVLGAALGATGLLGTVTMAMACTPIVSASFSTSSIVFAFSISLRAACFSASTLAKSSAFSLSESGAPLIS
SCLSLAAFSMAFLADSFVANLEACD

SeqID 285

YSPFNHSILIRKTTKIINPNPKAPRMNWRSKVWSNQPVNISTNHTKSDRPIKK

SeqID 286

DYFKFRTTFTFRFSTVKPYSANTFGAGAEAPKVSIPRTAPSRPTYLYQF

SeqID 287

RGRRLCVARIKAPRLVIKPKRTIDPPTKDRYSPLSATSLSPKSPPIISFPAKMDKNPKRKLNSKVIFFNASVT

SeqID 288

TPPYTKIPAKTAIIPFISAQDFNQAQRLSG

SeqID 289

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ATATTTATGCAGAT

SeqID 290

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SeqID 291

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SeqID 292

ATGATCCAAATCGGCAAGATTTTTGCGGACGCTATCGGATTGTCAAACAGATTGGTTCGAGGAGGCATGGCGGATGTCTACCT
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SeqID 293

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SeqID 294

ATGATCCAAATCGGCAAGATTTTTGCCGGACGCTATCGGATTGTCAAACAGATTGGTCGAGGAGGCATGGCGGATGTCTACCT
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SeqID 295

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SeqID 296

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SeqID 297

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SeqID 298

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SeqID 299

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SeqID 300

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SeqID 301

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SeqID 302

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SeqID 303

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SeqID 304

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SeqID 305

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SeqID 306

SeqID 307

SeqID 308

SeqID 309

SeqID 310

SeqID 311

SeqID 312

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XXAESDVEVKAELELVKEEAKPEPNEEKVKQAKAEV.
SKKAEATRLEKIKTRDKKAE EEAKRKAEEEDKVKEKPAEQPPAPAPKA EKPAPAPKPENPAEQPKAEKPADQQA EEDYARR.
EEEYNRLTQQQPPKTEKPAQPSTPKTGWKQENGMYFYNTDGS MATGWLQNGSWYYLNSNGAMATGWLQNGSWYYL NANG;
MATGWLQNGSWYYL NANGSMATGWLQYNGSWYYL NANGSMATGWLQYNGSWYYL NANGSMATGWLQYNGSWYYL NANGDGTWYYLEASGAMK
SQWFKVSDKWYYVNGSGALAVNTMDGYGVNANGEWVN

XXLKLSPMWKCLKRSLTSKEEAKPLNEGTTRQ
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AEQPKPEKPAEQPKAEKTDDQQAEDYARRSEEEYNRLTQQQPQKPEQPAPAPKIGWKQENGMMWYFYNTDGSMTGWLQYNGS
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DESXXXIXAESDVVKVEAELELVKEEKESRNEEKIK
QAKAKVESKKAETRLKIKTKDRKAAEEAKRKAEEEDKVKEKPAEQPPAPAPAPKPNPABEPENPVPAKPKPENPAEQPKA
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ANGEWN

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XX
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YPTNTYKTLLEDAESDVEVKKAELQVLMGVSIRNLETRKKLTKQSEKLRIKKLMLQXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXQVNGMWGYYFNTDGSMTAGWLQNNGSWYYLNSNGAMATGWLQNNGSWYYLNSNGAMATGWI
QYNGSWYYLNSNGDMATGWGFQYNGSWYYLNSNGDMATGWGFQYNGSWYYLNSNGDMATGWGFQYNGSWYYLNSNGDMATGWLQYT
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VNAGEVWN

Note: "X" represents undefined/missing nucleotides or amino acids due to unavailable sequencing information.